

No. 55.

Edgar R. Waite.



1909

July 16th
to

1910

Oct. 30th

AM 5587/52

July.

16. Fri.

Left Ch. Ch. by 4 pm train, joined "Moeraki" & moved off about 5.0

17. Sat.

Arrived at Pt Chalmers at 7. am. After breakfast I took the ferry to Portobello & spent 1 1/2 hours with Auderton. Saw the English Lobsters & crabs and identified *Notorhynchus indicus* of which he had caught 9 in one day. Returned to Pt. Chalmers where the Moeraki lies until afternoon & went to Dunedin by train

lunched with the
Misses Cohen & then
went to see Benham.
had a stroll up the
Leith Valley & talked
of Institute & Museum
matters. Met Marshall.
Returned to the boat
for dinner.

18 Sun.

Benham showed me
over the new Hocken
wing & after lunch
visited the "Early
Settlers' Museum which
badly requires ar-
ranging. Sailed at
3.0 for the Bluff,
wrote to Rose.

19. Mon.

Arrived off the Bluff
very early & dodged
about until the tide
was suitable, smoke
on the horizon was
said to be that of
the "Maunuka" which
berthed $\frac{1}{2}$ hour after
we did. Walked up
the Bluff Hill to the
Lighthouse my third
visit to it. & returned
to the boat for lunch.
The afternoon being
wet I did not go
out as we were
said to be sailing
at 4.0 however this
was wrong for 8.30

was posted, afterwards
altered to 9.0 at
which time we left.
The "Merry Widow"
people came aboard
to the number of 80
& I again met the
ladies of Aberdare
Nurses Vaughan, Mrs.
Grove & Caffyn (?).
We took three railway
truck loads of oysters,
hundreds of boxes
of frozen Blue Cod.
& cut timber for
making fish-boxes.
I obtained draft on
Sydney for £10. in
place of notes.

20 Tues.

At sea, bit lumpy
very few appeared
either on deck or
at meals. I enjoyed
myself as usual -
many Sooty Albatrosses
accompanied us to
day and one Royal,
also a number of
Pelecanoides.

21. Wed.

At sea, much smoother,
a better attendance.

22 Thurs.

Packed intending to go
overland from Hobart
to Launceston, noted
the Columnar basalt

at Cape Horn
& the fine harbour at
Hobart. We landed at
2.30 & I was met by
Robert Hall & became
his guest. The Federal
Trawler "Endeavour"
was lying at the
wharf & we went
aboard but Dannevig
would not be back
until after six. He
told Hall, who had
previously called on
him that he wanted
to see me. Next
visited Arthur M. Lea.
R. M. Johnston, also
knight to whom I

had a letter from
Toovey. Got a view
of the City from the
top of the Col. Mutual
ass. Co's building. A
letter from Rose. We
then went to Hall's
house met Mrs Hall
& all returned to town
to tea, their maid
being absent. Again
called on Dannevig
he showed us over
the boat, also some
of the appliances &
collections and after
the Halls left I had
a long talk on the
trawling appointment

the billet is worth
only £300 but will
improve. Dannevig
went aboard the
'Moeraki' with me
for after a talk
with Hall, I had
decided to abandon
the idea of visiting
Launceston. Sailed
at 9. for Melbourne.
Found Mr. Mc Nab
aboard, he remembered
me stopping him at
the "Big Wanganui"
& in fact recalled
the incident to my
mind.

23. Fri.

At sea, we had on board six men, apparently gentlemen, as regards dress but it appears they were sharpers. they were suspected of burglaries in Dunedin but there was no proof.

Extra watchmen had been put on at night & they found the men prowling about the deck & alleyways all night.

24. Sat.

Learned that the alleys & cross alleys had been locked last night & cotton had been placed across after

everyone had turned
in & later all the
threads were found
to have been broken.
I was within the
infected area and
having been told that
one of the men had
expressed curiosity as
to which was my
cabin. I took pre-
cautionary measures
as to disposal of cash
etc. The guard was
however too strong &
no untoward incident
was reported. The
Melbourne police had
been cabled to.

Reached Melbourne at
9 am. Went to Union
Co. Office and obtained
ticket for Sydney by
"~~Wybecera~~". Wy⁺ema
£1-10-0, usual fare
being 5/- Called
on Trades and Customs
Office & saw Mr. Hayes
who introduced me
to Lockyer. Assistant
Comptroller, with whom
I chatted re fishery
matters, he said that
no such appointment
as mentioned by
Dannevig was con-
templated at present.
No £300 or other sum

had been voted +
he promised to let
me know if + when
anything suitable
for me should arise
he had the "Nova
Niven" report beside
him. What is
Dannevig's game ??

Saw Spencer and
Kershaw at Museum
had lunch in town
transferred luggage
from Moeraki to
Wyreema. Obtained
letter from Rose +
sent telegram to
effect. Arrive on
Monday.

Tailed at 2. pm
passed the promontory
about 7.0.

25. Sun.

My cabin mate is
a young fellow who
calls himself F. Paget -
- Bayley, he is a
cousin of Ida Bayley
who was Dr. Vause's
wife - The Wyreema
is a new boat &
has the berths on
the same level not
one above the other -
Passed Twofold Bay at
sundown.

26. Mon

Arrived at The Heads
at 7. am and had

a lovely steam up
the harbour, After
breakfast on board
I sent luggage on &
walked to Ardrossan
meeting Rose half-
way. Together we
walked about the City
called at Museum
& saw old colleagues,
but Etheridge was ab-
sent ill. In the
evening Paterson took
us to Theatre "Flag
Lieutenant" when
we first arrived from
England Paterson
was the first to in-
troduce us to a
Sydney theatre and

Titherage played on
both occasions.

27. Tues.

To Mosman & looked
at "Burley" which
has just been done-
up both inside &
out. In the evening
we went to Josephs.

28. Wed.

To Mosman again &
saw Mr. Megson. To
the Museum. Allan
showed me round &
I spoke about Lacedæ.
To Luncheon meeting
at night.

29. Thurs.

To Temple in morning.
Stayed lunch.

30 Fri.

Saw Etheridge in bed
Spent morning at the
Museum, re "Endeavour"
fishes. Submitted my
Lacépède for purchase
£5. Spent evening
with the Douns at
Balmain. Arranged
to go with Paterson
to his selection to-
morrow. Wrote to
Gilchrist, Cape Town
& Zietz, Adelaide for
published fish papers.

31. Sat.

Spent morning at the
Mitchell Library, not
yet open to public
shown over by Wright

P. C.

Wyreema

Left by 1.33. train
with Paterson for
Mulgave where we
were met by Dunn
& driven to Forrester,
his selection. It was
nice to see the Maggie
Jackass, Thickhead,
Jacky-winter etc. again.

degraded

over

in the

August.

1. Sun.

Spent morning in the orange & passion fruit orchards. Left about 5.30 Got the 7.40 train & returned to Sydney.

2. Mon.

Left copy of Lapeyère at Museum on approval at £.5. Spent evening at the Halls - Rose remaining in town nursing a cold.

3. Tues.

Saw Thackeray and arranged to give a lecture on travelling before the Amateur

Fishermen's Association
on Tuesday next.

Left books with Picot
to be bound namely
Poey. Pesces de Cuba
Castelnau Poissons. S. Am
Linnaeus. Syst. Nat.
Bibliot. Zoolog. 3. Vols.

4. Wed.

Took ticket. Brisbane
return by "Orsova"
leaving Tuesday &
returning Monday -
£3. 3. 0. 2nd class -
a special excursion
Queensland Jubilee.

Took Paterson & Rose
to Paulownia "Cinderella".
Letter from Speight
& replied Draft for

salary from Mason.

5. Thurs.

In morning I went to
the University & saw
Haswell, David and
Masters. The first-named
invited me to dinner
of the Biology Club,
tomorrow evening. I
also called on Baker.
Wrote to Danneris in
respect to his "vacancy."
Went to the Zoo in
the afternoon & saw
the aquarium & the
chimpanzee.

6. Fri

wrote to Agilby and
Speight. Attended
dinner of Biological

Club. tendered to David
+ Wilson (F.R.S). went
with Rose in afternoon
to Moruan to meet
Bessie Hopcraft.

7. Sat.

To Museum in the
morning + with Rose
in afternoon to Par-
-ramatta had tea
+ spent evening with
the M^r Cullocks -

8. Sun.

Spent day in Paterson's
launch. joining at
Milson's Point, went
up Lane Cove. picked
up Mr + Mrs Wood +
went to head of the
cove where we picnicked

then up Parramatta
River, returning to
Balmain.

9. Mon.

Called on Middleton
& Rowling, with Rose,
on Mr De Groen.

10. Tues.

Etheridge showed Rose
& self over the new
wing at the Museum
Called on White re
lantern for 17th.

Left at 4.0 for Bris-
bane in "Orsova" her
maiden trip. Going
down the harbour
we picked up a he-
lated passenger from
the pilot boat. His

climbing of the pilot
ladder was an exciting
time & I got a 'snap'
of him.

11. Wed.

At sea. beautifully
calm. In the evening

~~12~~ ~~Thurs.~~ we had a concert
& I gave a "Humorous
Sketch".

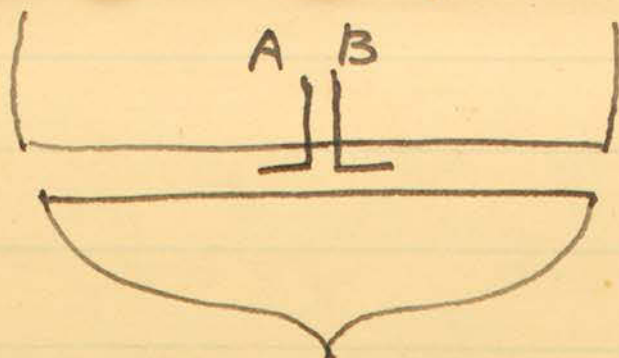
12. Thurs.

Arrived at Pukerua
at 6.30 am. I was
unexpectedly met by
Mr. Hilsen & Grethe,
who took me out
to their home at
Toowong. Hilsen is
at present away at
Maryborough.

Returned to the City
Went to the Exhibition
held to commemorate
the jubilee of Queensland
Saw Ogilby who is
in charge of the
"Fisheries", he asked
me to meeting of the
Amateur Fishermen's
Association. We then
Went to the Museum.
Called at Post Office
807 letters wrote to
Rose. In evening I
Went to meeting of
the Fish. Assoc.
& returned to Toowoong
for the night. Mr.
Hilsey sent note to
the "Brisbane Courier"

13. Fri

went to town with
Grethe. Saw 2 "1867"
flutes, silver with
thinned ebony
heads. each £27.
bought fountain pens
for Grethe + Claude
+ other things. In
the afternoon we
had a walk along
the river + called
on Mr. David, he
has taken out a
patent for swinging
ships from a wharf
or in stream but
I don't see that
the principle is a
sound one.



A & B are steam jets
 working independently
 in an open trunk-
 way passing right
 through the vessel -
 one at the bow &
 the other at stern.
 Spent evening at the
 house of a neighbour
 of Mr. Hülsen, Rev
 — Brown.

14. Sat.

Went to the city by
 train with Mr. H.
 & Grethe, dined at
 a cafe, had a plate
 of soup spilled over

my lap by the
consequently distressed
waitress & took the
2 O'clock train to
Parramatta, where I
joined the "Orsola"
Cast off at 5.0 &
arrived off Cape
Moreton at 9. where
we dropped the pilot.

15 Sun.

At sea, beautifully
bright and calm.

16. Mon.

Reached Sydney Heads
6. am & anchored in
Neutral Bay. After
breakfast we left
by tender for the Quay.

17. Tues.

Spent morning at
the Museum. Saw
the new Lion group.
Arranged lantern slides
for my lecture and
borrowed trap of N.G.
Letter from Speight,
he hears that Sparkes
does not intend to
return to the Museum.
Bought Beddards "Nat.
Hist in Zool. Gardens".
Gave lecture on Trawling
Thackeray presided &
Farwell proposed vote
of thanks.

TRAWLING in Australasian Waters.—Lecture by
Mr. E. R. Waite, F.L.S., TO-NIGHT, 8. Amateur
Fishermen's Association, 70 Pitt-street. Members and
Angling Friends and Naturalists invited.

Cutting

Cutting

18. Wed.

Called at Museum
& selected Taschenberg's
"Bibl. Zool." (a duplicate)
for exchange. Spent
evening at Hellawells.

19. Thurs.

Called on Faruell &
had a serious chat-
he promised to consider
me if a suitable
post arose. Fixed up
tickets for Saturday
we shall retain a
4-berth cabin unless
the accommodation
is wholly taken which
it promises to be
Bought toys & games for
Claude & the Hoggards.

Saw Cherry, Steel &
others. - 0.

20. Fri.

Ferry to Milson's Pt
thence walked via the
tram line to the
Mosman Ferry, but
broke the journey at
Mr. Kemp's, where I
had lunch. The
"Moana" previously
timed to leave at
2. tomorrow is now
advertised for 7.
Visited Mr. & Mrs. Thomas
in the evening.

21. Sat

Boat postponed to 8.0
The Victorian floods
have delayed a

Theatrical Co "The
Englishman's Home"
booked for the "Moana".
Packed in the morning
I had lunch with the
Josephs and borrowed
£2. My available
cash having run peril-
ously low. Sent all
luggage to the boat
in the afternoon &
we left punctually
at 8.0. We carried
the Sydney University
footballers.

22

23

24

25 Wed.

Arrived at Wellington
in the afternoon. We
were met by Ada
Hall & taken to her
lodgings at Kilbirnie
(Miss Castles a co-boarder).
Returned to the boat
for bed & breakfast.

26 Thurs.

Visited Hamilton and
arranged to meet Mr
H. in the afternoon
Called on the Govt.
Printer. Went to H's
house later. Sailed
at 5.0. Was inter-

~~27~~ Received by represen-
tatives of both the
"Press" & "Times".

27. Fri.

Reached Lyttelton at
6.20. Was met by
Claude & Annie Hall.
Passed luggage & got
9.25 train, thence to
the house & Museum.

I met Sparkes on the
Chch. platform & he
practically confirmed
what Speight had
written to me.

28. Sat.

Sparkes came in &
wrote out resignation
I sent it to Russell
who said advertise
for successor, at once.
I replied that I was

not inclined to appoint
a taxidermist & would
explain later.

MR. WAITE'S VISIT TO
AUSTRALIA. TIMES

[FROM OUR CORRESPONDENT.]

WELLINGTON, August 26.

Mr E. Waite, curator of the Canterbury Museum, arrived from Sydney by the Moana yesterday, and leaves for the south by the same vessel to-night. He told a "Lyttelton Times" representative this afternoon that he had experienced delightful weather during the six weeks of his holiday, and he is feeling much better for the trip. The chairman of the Board of Governors of Canterbury College (Mr G. W. Russell), he said, visited Sydney some time ago, and seeing the immense library of biography and history contained there, arranged for the institution of a similar library for the Canterbury Museum. One of the objects of Mr Waite's visit was to see the Sydney institution and learn something of its methods of docketing manuscripts and other details. He gained a good deal of valuable information which he would submit to his Board. He also had a talk with Professor Bickerton, who was on his way Home to place before the astronomical societies his theory of partial impact. He visited all the museums of the Commonwealth from Hobart to Brisbane, and succeeded in arranging for some valuable exchanges.

RETURN OF MR. E. R. WAITE.

(SPECIAL TO "THE PRESS.")

WELLINGTON, August 25.

Mr E. R. Waite, curator of the Canterbury Museum, who has been on a holiday in Australia, returned to New Zealand by the Moana to-day. During his tour in the Commonwealth he was able to negotiate a number of exchanges with other museums. Mr and Mrs Waite took advantage of the sailing of the new 12,000-ton boat, the Orsova, to visit Brisbane on the occasion of the jubilee of the separation from New South Wales. The Orsova is the first of the five big new ships that the Orient Company is building, and Mr Waite says she is a very fine boat. The jubilee provided a very gay time in Brisbane. Mr Waite utilised a good deal of his spare time in connection with his favourite branch of science, viz., the study of fishes, and the knowledge he gained will, he says, assist him in his work with New Zealand fishes. While he was in Hobart, he was fortunate in being able to look over the new steam trawler (the Endeavour), which has been secured by the Tasmanian Government, and there he met his friend Mr Dannevig, who is in charge of the operations. The vessel, he found, was quite a modern one, provided with up-to-date appliances, and also the latest appliances for scientific research. The Government hope to do some investigation work with a view to commercial results. At present there is no trawling industry in Tasmania. Mr Waite thinks that when the trawler gets to work off the Tasmanian coast, a number of fishes similar to those in New Zealand will be found. While in Sydney, Mr Waite met Professor David at a dinner given in his honour, and in honour also of Professor J. T. Wilson, who had been appointed to the fellowship of the Royal Society, London. Professor Haswell, who is well-known in the South Island, presided on that occasion. Since his return Professor David has been very busy with his University work, and consequently he has not yet been able to devote a great deal of attention to the specimens he secured as a member of Lieutenant Shackleton's expedition. The work will, however, be very carefully done by the professor and some of his students when the University work is finished for the year.

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STORING HISTORY.

THE MITCHELL LIBRARY.

MR WAITE IN SYDNEY.

During his recent visit to Australia Mr G. W. Russell, M.P., was greatly interested in the Mitchell collection of documents, books, engravings and records relating to the history of Australia, and on his return to Christchurch the question of establishing a similar library in Christchurch was considered, and Mr Edgar Waite, curator of the Christchurch Museum, has obtained some further information regarding the scope of the collection and of the building in which the historical treasure is stored.

The gift was made by the late Mr David Scott Mitchell in 1898, and he stipulated that the 30,000 volumes, prints, engravings and pictures that he was prepared to hand over to the Government should be properly housed in Sydney, and that they should be kept separate and known as the Mitchell Library. For some years, owing to changes of Governments, it was impossible to select a suitable site for the building in which to store the valuable records of Australia's life, but in 1901 competitive designs were invited for a library, and in 1906 a site in Macquarie Street was decided upon. Last year the building was completed and the library installed. Experts were engaged, and the library has been classified according to the Dewey system, and divided into four sections:—(1) Manuscripts and papers; (2) coins, medals, medallions, tokens and miniatures; (3) books, chiefly on early Australian history; (4) portraits, maps, sketches, plans and

engravings. Although the collection is distinctly local, there are other valuable things, with no particular bearing on Australian life, that would find a cherished place in any collection of old records. Among them are two "Books of Hours" printed on vellum and dated 1402.

The building in which the Mitchell Library is housed is up-to-date in every respect, and particular care has been taken to guard against the bogey of all collectors, fire. The shelves on which the books are placed are of steel, and, although some of the show-cases are of Java teak, wood, where possible, has been replaced by non-inflammable material. A feature of the library is an automatic lift, which can be manipulated from floor to floor by the mere pressing of a button, and the doors leading to the lift will not open until it is exactly opposite the floor and is stationary. Electric lighting is used everywhere, and no pains have been spared to light the interior.

The collection of books and manuscripts includes the first newspaper printed in Australia, the "Sydney Gazette" of 1803; the first book, the "New South Wales Standing Orders, 1802-1808"; the first book of verse, Barron Field's "First Fruits of Australian Poetry, 1819"; and the first theatrical playbill issued in 1800. There is a complete set of Australian almanacs from 1806, and a copy of every work of note published in Australia from 1810 to 1900. The old manuscripts are bound in 1000 volumes, and include some almost priceless writings. There is the original journal of Sir Joseph Banks, who accompanied Captain Cook on his first voyage around the world. There are the journals of Pieyer-Nuyts (1627-37) and of the host of intrepid explorers that assisted in the conquest of the continent. There are diaries of

many men who have been prominent in many walks of life, and the manuscript poems of Charles Harpur, the first true Australian poet. In addition to the bound volumes there are thousands of letters, and other documents with special reference to Australia's great men, letters of Sir Henry Parkes, Sir Joseph Banks, Mr John Dunmore Lang, Captain Piper and a host of others who have been closely identified with the history of Australia.

The value of the collection cannot well be estimated, although at the time when Mr Mitchell made the offer he stated that the amount spent in making the collection was approximately £30,000, and that he proposed to continue adding to it at the rate of £800 a year.

LINKS WITH THE PAST.

THE MITCHELL COLLECTION IN SYDNEY.

In conversation with a "Press" representative, Mr Edgar R. Waite, curator of the Canterbury Museum, who returned to Christchurch yesterday, supplied some interesting information in regard to the Mitchell collection in Sydney, on the lines of which it is proposed to establish a collection of the early Canterbury records in the Canterbury Museum. Mr Waite, it may be remarked, spent a very considerable portion of his time studying the institution with a view to obtaining any information that might be of value in the formation of the local

collection. The Mitchell library, which was offered to the New South Wales Government by Mr David Scott Mitchell, M.A., and promptly accepted, consists of a priceless collection of books, manuscripts, papers, coins, medals, medallions, tokens, miniatures, books (chiefly on Australian early history), portraits, pictures, maps, sketches, plans, and engravings. It is classified according to the Dewey system, and divided into four sections, being housed in the Mitchell wing of the new Public Library. Books and manuscripts are the great attraction of the library, and include the first newspaper printed in Australia, the "Sydney Gazette," of 1803, the first book, "New South Wales General Standing Orders, 1802-1808," the first book of verse, Barron Field's "First Fruits of Australian Poetry, 1819," and the first theatrical playbills issued in 1800. Again, there is an almost complete set of Australian almanacs from 1806, and the first issues of the "South Sea Island Mission Press." The Australian Art Gallery is also a special feature of the exhibition. Mr Waite stated that the building was a handsome massive stone structure, several storeys high, specially built with a view to housing the collection. The whole of the shelving is of steel, and the woodwork is practically a negative quantity, the risk of fire being thus reduced to a minimum. The electric lighting is also splendidly and conveniently fitted up, and the automatic electric lift, which is of the most up-to-date character, also proves a great convenience. "It would be quite impossible to duplicate such a collection," said Mr Waite, "and it is absolutely unique. I tested several shelves for books which I knew were extremely rare, and in every instance found what I was looking for."

Among the exhibits in the Mitchell collection (of which Mr E. R. Waite, Curator of the Canterbury Museum, made a special study during his visit to Sydney) is the original journal of Sir Joseph Banks, written when he accompanied Captain Cook on his first voyage round the world. This journal, covering the years 1768-1771, gives an account of the exploration of the east coast of Australia and the circumnavigation of New Zealand, and is a very valuable record of early Australasian exploration.

30. Mon.

Though the trawling report has been 'out' some time it was not reviewed locally till to-day -

A very interesting booklet edited by Mr Edgar R. Waite, Curator of the Museum, dealing with the scientific results of the New Zealand Government trawling expedition of 1907, has recently been published. The booklet, in addition to the letterpress, contains a chart showing the trawling stations and a number of reproductions of excellent photographs taken by various members of the expedition. Articles are contributed by Dr. Benham, Mr E. R. Waite, Mr R. M. Laing, and Mr H. Suter

Monday night the Highland

In the booklet dealing with the scientific results of the New Zealand Government trawling expedition, Mr E. R. Waite, Curator of the Canterbury Museum, states that he received from Mr Ayson a copy of the official report, which, though styled an "interim report," was very detailed and exhaustive as far as trawling was concerned. The total weight of marketable fish brought to port by the trawler during the three months' cruise, states the report, was 46,750lb. Mr Anderton, who supplied the report on the operations at the Chatham Islands, wrote: "It was a sight to see the boats returning after a couple of hours' fishing, loaded to the gunwale with blue cod. Four Pitt Islanders caught 230 of the largest blue cod I have ever seen and this was in less than an hour and a half's fishing off the north-west corner of Pitt Island. Six of the crew caught 606 blue cod and 103 large hapuka in seven hours off Whangaroa, and on another occasion caught 860 blue cod in three hours and a half. Almost all the men were inexperienced in the art of blue cod fishing, making the catch all the more remarkable. It is extremely probable that the Chatham Islands will in the near future become one of the most important sources of our fish supply." Mr Waite states that he fully agrees with Mr Anderton's remarks, and considers that with the great demand for blue cod in New Zealand and Australia and the prodigious supply to be won around the Chathams and neighbouring islets, a very profitable industry should be maintained.

The voraciousness of the mollymawk is incidentally mentioned in the recently published booklet giving the scientific results of the New Zealand Government trawling expedition. "When trawling off Long Point, Otago," states the report, "a number of the birds were in close attendance, feeding at the side of the vessel, and devouring food thrown to them. They are capable of swallowing a full-sized red cod whole. When one of the birds had the 'field' to itself it would pick the fish to pieces as it floated on the water, but if another bird approached, the fish was quickly gulped down."

"On our passage to Napier," writes Mr E. R. Waite, in his introduction to "The Scientific Results of the New Zealand Government Trawling Expedition," "we were almost continuously accompanied by porpoises. A school would sight us a mile or more distant, and head straight for the vessel, when the individuals would zigzag from side to side across the bows, revelling in the foam which our passage produced. We shot a couple of the mammals with a military rifle, and put the ship about to where the ruddy water showed they had been killed, but the bodies had sunk."

Mr E. R. Waite, who edited the booklet detailing the scientific results of the recent Government trawling expedition, in his introductory remarks, states that some of the cattle on the northern coast of Chatham Island develop a taste for seaweed, and prefer it to grass. Several animals, all miserably thin, were seen feeding on the shore, Mr Waite being informed by a resident of the island that their poor condition was characteristic of cattle taking to this strange diet, from which they could not be weaned.

31. Tues

wrote Sparkes & told
him that the Board
has accepted his re-
signation. Paid 'extras'
Claude's school fees viz
£1. 6. 8. Sent £2
to Joseph which I had
borrowed in Sydney.



September.

1. Wed.

Wrote to Howarth of
Museum Association
offered to compile
the directory of the
N.Z. Museums for his
work noted in 'Nature'
Presided at meeting
of C. P. J. Chilton on
'Life in Sub-Antarctica'

2 Thurs

Wrote Mr Waite and
developed negatives of
football team (Sydney
Univ.) which I took
on the 'Moana'. Took
tickets "Tell Gwynne
Saturday."

3. Fri.

Sent negatives to Ed.
"Weekly Press" of the
football team & "Orsora."

4. Sat.

Motored to Cresswells &
played quoits.

5. Sun.

Took Claude out for a
run on the motor.

6. Mon.

Bought "British Salt-
water Fish" 7/6.

7. Tues.

Bristed sent me 5/-
for photos of football
team -

8. Wed.

As we fear that

Claude is developing
post-nasal growths
again. Rose took him
to Dr. Gibson when it
was found to be so.
Haynes, taxidermist
called to see me and
will be a candidate.

9. Thurs.

wrote Wilfrid. Allan.
+ Sinclair re "Bibliotheca
Zoologica." Telephoned
to Gibson, he will
attend Claude tomorrow.

10. Fri.

Claude operated upon
by Dr. Gibson + Lester +
Nurse Foynes. He had
tonsils and adenoids
removed. Paid Nurse 2/-

Gave Chilton 10% for
Nector Memorial fund.
Letter from Niven re
Japanese goldfishes -

11. Sat.

wrote to Niven and
in the afternoon went
to Opawa (Nector) &
saw Johnson, re his
goldfishes - I found
them to be nearly all
single-tailed. ^{two}
much inbred.

12. Sat.

went with the Misses
Hall & Mr. Martin for
a walk, started at
the foot of the hills,
to Dyers Pass, thence

to Kennedy's bush where
we lunched and back
by a sheep track. in
time for tea. At 9.20
we heard the fire bells
& I went with Mr
Hoggard & Miss Campbell
to see the house (a
7. roomed dwelling in
Worcester St) burned to
the ground.

13 Mon.

Library Committee of
C.P.I.

14. Tues

Had covers printed
for Racefile, the
binding being broken
2 Photos football team
published in the 2nd Press &

15. Wed

Ordered fishes of the
French Antarctic Exp
57- from Dulau & Co

16. Thurs

Received £5. from
Sinclair for the copy
of Lacépède I sold.
Called upon Haynes
re position of Taxi-
dermist & in writing
my report recommended
his appointment.

17. Fri.

In consequence of the
unsatisfactory conditions
at the boarding house
Rose talks of again
setting up a residence.

18. Sat.

Took ^{Gerly} Annie Hall to
Tai Tapu in the trailer
Went to see Bengough
Canadian entertainer
at night. Received
review of Sub. Antarctic
"Vertebrates".

19 Sun

Gerly Hall, Miss Campbell
Hoggard & Self walked
to Taylor's mistake, the
day was damp. In
the evening with Mr
& Mrs Hoggard we went
to Mr. Orr's to hear a
£ Guinea Gramophone.

20 Mon

Telegram from Asen
re "Aerial connection".
37/6.

House hunting Rickarton
& St Albans.

21. Tues

The "Lyttelton Times" is photographing inside & outside the Museum & to-day took a group of the staff. We have no taxidermist but I sent for Barker to swell the ranks. In the evening we looked at a house in Rugby St which Rose fancied.

22. Wed.

Visited the house 22 Rugby St by daylight & decided to take it @ £65. The owner bought and lives in

"San Romolo" Calvert.

23 Thurs.

Selected wall papers
for "Mataviki" and
had linoleums etc
taken there ready for
Saturday afternoon.
Letter from Wilfrid.
from Rudall Carte to
saying the flute was
despatched - £1-14-6
I ordered "The Flute &
Flute playing" Boehm
5/3.

24. Fri.

CANTERBURY MUSEUM.

APPLICATIONS are invited for the position of Taxidermist and Articulator. Salary £200. Particulars can be obtained from the Curator. Applications close at Noon on MONDAY, 11th October.

4443 GEO. H. MASON,
Registrar Canterbury College.

Sent a second load of
furniture from the
Museum to "Matariki"

25. Sat.

Went to dealers with
Rose and selected
some goods, thence to
the house & put down
some linoleums. Took
Claude & Mr. Horeley
to Cinematograph in
the evening.

26. Sun.

With the Misses Hall
& Mr. Martini, took train
to Sumner and had
a hill-walk returning
via Heathcote.

27. Mon
Went with Rose to
Tunks Norton & Co and
she selected

Sideboard - £ 6. 10. 0

Wardrobe - £ 5. 10. 0

Hall stand. £ 3. 10. 0

To the house in the
evening put together
some Austrian chairs

28. Tues.

Paid Hoddinot :-

Chest drawers. £ 1. 0. 0.

Survivor. £ 1-5-0.

Spent evening at the
house putting down
floor covering etc.

29. Wed.

Transfer of Insurance
policy now £ 1-12-0
which I paid.

Spent evening at the house, the Muses Hall assisting. Plugged walls & fixed up two mirrors

30 Thurs.

Took the day off duty and had another load of goods removed. Spent all day at the house. Got in fuel had the floors cleaned & so on. Museum connected with telephone.

October -

1. Fri.

Left Aberdare House.
and entered into
occupancy of "Matariki"
Paid School fees for
Claude £5. 2-0.

Bought Linoleum £2-15-6

2 Sat At work at the

3. Sun. house.

4 Mon. Bought Curtains
rods & sundries £

5. Tues.

Paid Farmers' Coop
£2. 15-6. Linoleums -

+ Trucks Norton & Co

£15. 10. 0. Furniture

Rose bought 2

Carpets to cost

£10. 10. 0

Unpacked
The last box of

pictures "East Lynn"
utterly destroyed by
damp... I knew it
only by its size and
frame the paper fell
to pieces under the
touch. It was my
best water-color by
Banks, from whom
it was a wedding
present - valued £21.

6. Wed

Sent up the last
load of goods - got
my flute from the
Customs 7/- duty -
Presided at meeting
of C. P. I.

7 Thurs.

Attended meeting of
Early Settlers' Committee
my report was referred
to a Sub-Committee.

8 Fri

Wrote report for Museum
Committee recommended
Haynes for taxidermist

9 Sat.

Examined a shark
taken in deep water
found it to be species
of *Centrophorus*.

10. Sun.

At work on the
house. An address
given by Bickerton &
reported yesterday may
demand some notice!

11. Mon.

Called Council, together
of C. P. J. and it was
decided that I should
reply to Bickerton's re-
marks in the "Press"
Drafted letter in the
evening. Examined
the Shark and found
it to be nearest to
Centrophorus fol
but shall regard it
as new C. plumketi?

12. Tues.

Recast letter together
with Speight & sent
to "Press".

13. Wed.

Letter published - as
below -

Press

Oct. 13. 1909.

09.

PARTIAL IMPACT.

TO THE EDITOR OF "THE PRESS."

Sir,—In your report, published on the 9th inst., of the public meeting called to further the scientific recognition of the theory of partial impact, Professor Bickerton is reported to have stated, in effect, that he had experienced difficulty in obtaining proper opportunity for submitting his papers to scientific societies. Your report reads:—"If he had any papers to be read they were put at the bottom of the list, so that there was small chance of their being read; and if they did get read, no one stayed to debate them."

As far as the Canterbury Philosophical Institute is concerned, the Council feels that Professor Bickerton has, unintentionally, cast a reflection upon it.

For many years Professor Bickerton was a member of the Institute, and was at one time its president also. During this period he contributed many papers, several of which were published in the "Transactions of the New Zealand Institute," and some of the meetings were given up entirely to him; the records further show that on one occasion, at least, a special meeting was held for the sole purpose of enabling him to place his views before the Institute, and the world at large.

Although he ceased to be a member of the Institute in 1897, that is twelve years ago, the Council recently, at his own request, arranged for a special meeting, which was largely attended by members and others. His address was the only business taken at the meeting, and would doubtless have been more fully discussed had time permitted.

In view of the foregoing, it should be clear that Professor Bickerton has had every possible opportunity of presenting his work to this Institute, and the records also show that his papers have been treated quite impartially in respect to their position on the agenda paper.

In making his sweeping assertion, the Council is of opinion that Professor Bickerton might have excepted the Canterbury Philosophical Institute, a society with which he was, at one time, so honourably and actively connected.—Yours, etc.,

EDGAR R. WAITE,
President, Canterbury Philosophical
Institute.
October 11th, 1909.

Labour Day. Holiday
I went to Museum
in morning & took
afternoon off. Worked
at a bike house
necessary to build

14. Thurs.

Paid following:—

Rudall Carte & Co
Repairing flute and
book (573) ordered

£. 1- 19- 9.

C. E. Turner. Ariel

see
below

Connection £ 1-15-⁸/₄ }

Arthur Roberts, Sundries
for house £1-8.7

Hoddinot, a second chest of drawers & a broken pantagraph (5/-) which I found among his things:-

total ✓ £2-

Paterson (Rae). £1-7-0

Letter from Sinclair
saying he was sending
them. Aust. News. TV.

No 9-11. Also the
Bibliotheca in exchange
for reprints which I
posted to him. The
"Ariel" connection
which I have received
cost 35/- + 8/4 charges.
It seems complicated
& must take time to
affix

15 Fri.

Received and corrected
paged proof the sub-
antarctic Vertebrata.
Put iron roof on the
new bike shed.

16. Sat

Bickerton's reply to
my letter appears to
day.

PROFESSOR BICKERTON AND THE
PHILOSOPHICAL INSTITUTE.

TO THE EDITOR OF "THE PRESS."

Sir,—I must regret that the Council should have thought I included the Canterbury Philosophical Institute in the remarks I made regarding the scientific neglect of my theory. I was speaking of my being so well known all over the world as a faddist that I was avoided as a bore, and Christchurch was not in my mind at all. Most certainly the Institute has done much for me, although I have at times felt it has not done all it might. The Council sent on for publication all my early papers; they were objected to as nonsense in the House of Representatives, and their printing opposed. Sir George Grey, in a powerful speech, showed their great importance, and carried the vote. Mr Andrews, in a letter, tells us that Sir George Grey, in his speech, said "that when known the theory would lend a lustre to the name of New Zealand that would grow brighter and brighter as the ages rolled on." The Transactions of the Institute being in all the great libraries of the world, renders permanent plagiarism impossible. It is, perhaps, a score of years since I personally read those early papers; but recently Mr Gifford, Herschel Scholar of Cambridge, and an Oxford mathematician (Mr Martyn, I think), went carefully through them, and Mr Gifford wrote me of his surprise at the absence of flaws and the completeness of those papers of thirty years ago. In addition to the printing of these papers, I have to thank the Council of the Institute for much other aid. It recently put itself out of its way to allow me to lecture after its session had closed.

Amongst the members of the Institute there are several who have given me valuable mathematical aid. Generally, also, they accept the theory of the third body, and almost all consider it a valuable working hypothesis as a guide to astronomical research.

In view of the width of the work and its proven power to have been a guide to observation, what I think the Institute might have done, and what I hope it will still do, is to take an active instead of a passive interest in it. The Council has been too modest of its own ability and power. The case is peculiar; really its members are better qualified to judge than the eminent scientists of the Old World—such men are specialists, consequently essentially not qualified to judge of a generalisation involving half-a-dozen sciences. It is here I feel that the broader training of the colonial professor better enables him to judge of the theory than the astronomical specialists whose work is chiefly measurement and calculation. Few great astronomers are astrophysicists; even astrophysics, as yet, scarcely touches thermodynamics, one of the most basic sciences involved in the theory of partial impact. Among the members of the Institute there is scarcely a point but someone would be qualified to give an authoritative opinion on; and I am sure, were they to work enthusiastically, they might help me much, both in making the theory known and in aiding to solve some of its myriad problems and extend some of its many paths.

Before concluding, I wish to especially thank the president, Mr Waite, and the secretary, Mr Speight, for much kindly sympathy and encouragement.—Yours, etc.,

A. W. BICKERTON.

18. Mon.

Am writing notes on
Fishes for C. P. J.

1. Cheimarrichthys
2. Cephaloscyllium
3. Centrophorus.

Ogilby wrote to me re
Cephaloscyllium, pointing
out that C. sabella
is the name. wrote
to Allan for reference.

Prepared index of paper
on Sub. ant. Vertebrata

19. Tues.

Letter from Mr Waite
to which I replied. I
wrote to Allan for
details of Scyllium
Sabella, Broussonet.

20. ~~27~~ Wed

Letter from Murray
for M. S. of Antarctic
fishes, recommenced
work upon them.

21. Thurs.

Stuck for want of
literature one of
Shackleton's fishes is
probably Arctodidraeo
a genus defined by
Lounberg in Swedish
Antarctic Exp report.
Received timber for
finishing beke shed.

22. Fri

Wrote Sinclair for
Fishes Swedish Ant.
Exp. on loan, and to
Governor for permission
to name the new [40]

Centrophorus after him.

23. Sat

24. Sun.

worked at Motor
bike shed.

25 Mon.

Council meeting C.P.D.
Called on Bradley
who ~~showed~~ showed me his
Ariel connection in
position on Motor

26 Tues.

Letter from His Ex.
accepting suggestion
that I name the
Centrophorus after him

27. Wed

Motor bike saddle
broke down. took
it for repairs.

Have concluded work
on Antarctic fishes
except Artedidraco
for which I require
literature.

28. Thurs.

Hinged door of Motor
shed. Handed to
Chilton, Crustacea &
~~Sub~~ - Antarctic fishes
& sent worms from
same to Benham -

29. Fri

Fitted new leverage
attachments to the
motor.

30. Sat.

Bike saddle not being
reparable bought a
new one 25/- Ethel
Hall having come

to Ch Ch on a visit
she brought a ladies
bicycle & I fitted up
the Ariel connection
ready for a run to-
morrow. Finished the
motor shed.

31. Sun.

The motor failed with
carburettor trouble wh.
I failed to remedy.
The 3 Misses Hale
to tea -

November.

1. Mon.

Payments as follows.

2 Carpets. £10. 10. 0

Suit 3. 5. 0

Hat 10. 6

Rent.

Spark plug. 4. 6

Took motor to Suckling who said the trouble was in the plug wh. though yielding a weak spark refused under compression. He remedied the defect, but I bought a new plug in case of failure.

Had a spill riding home & cracked the main axle.

2 Tues

Had new axle fitted to bike.

3. Wed.

Employed Chamberlain in the garden. Presided at C. P. I. meeting & read a paper on the Kermadec Is. fishes not yet written.

4 Thurs.

Again employed old Chamberlain in the garden. Brauer called in evening & discussed wool buying. He made 500% last year and invited me to join him in venture this season.

5. Fri

Committee on Native
Birds Protection met.

6. Sat.

Thinking over question
of my presential
address. "Comparison
of fishes of Southern
lands" would seem a
suitable title & subject

7. Sun

Dine Three Russies Hall
to tea. I took Annie
& Ethel out by means
of "Ariel connection"
Got on well with the
former but Ethel
gripped her handles
too tightly to enable
me to steer well.

8. Mon.

Told Brauer that I
would plunge in wool
liability up to £50
which means that
say £250 value may
be bought. Prepared
Museum estimates for
1910 wrote monthly
report. wrote to
Lahille, Buenos Aires
for list of S American
fishes -

9. Tues.

wrote to ~~Dugan~~ for
lists of fishes of S.
America & S. Africa.

10. Wed.

Letter from W. Pascoe

Mosman, asking for
 selling price of "Burley".
 Our house warming
 in the evening - we
 had Mr. Horsley (cello)
 Misses Campbell and
 Stephens Mr. Hoggard
 Annie & Gertie Hall.

11. Thurs

Replied to Pascoe
 asked £600 & gave
 cost of "Burley" as
 follows: -

	£
Land Charges	115
Building and Architect }	425
Extras & Sundries	7
Sewerage connect	35
Improvements	15.

12. Fri.

Public holiday. Took
Rose + Claude to the
Agricultural Show.
"Nature"

contains short notice
of "Records" No. 2.

13. Sat.

Have finished ac-
count of the "Neurod"
fishes, but cannot
include Artedidraeo
not having necessary
literature.

14 Sun.

In addition to the
B. Misses Hall, had
Assess + Brauer
to tea.

15 Mon.

Chatham Islands
Committee, I shall
probably go on
Feb 1st - Council
meeting C. P. Inst. I
proposed that Laing
be nominated as
my successor.

16. Developed negatives
I had taken of
"Matariki" on Sun.
(a panorama of
3) all good. Ethel
Hall left for Wel-
lington.

17 Wed.

Sent off M.S. of
Munirod fishes &
Weekly Press, Lums.

No. to Mrs Waite &
Vellie Beale. Went
to the Station at
8. am & saw Annie
Hall off to fore.

Museum Committee I
presented estimates &
asked for new storeroom
etc. - Early Colonists -

18. Thurs.

Wrote Fanny Bowling
to pictures at night &

19. Fri.

Gave in notice of
paper on N. Z. fishes
to contain *Eutrophorus*
Cheimarrichthys etc.

20 Sat.

Working at Kermadec

Is fishes, identified
lestidium nudum of
Hawaiian fauna.

21. Sun.

Wet day. Made tin
case for carrying a
large accumulator
on motor.

22 Mon.

C.P.I. Committee on
Prospectus Sub-antarctic
book. Brauer Barker
called in evening.

23 Tues.

Discussed case of
issuing licenses to
kill seals. Following
appears in the "Press".

STORING HISTORY.

THE MITCHELL LIBRARY.

MR WAITE IN SYDNEY.

During his recent visit to Australia Mr G. W. Russell, M.P., was greatly interested in the Mitchell collection of documents, books, engravings and records relating to the history of Australia, and on his return to Christchurch the question of establishing a similar library in Christchurch was considered, and Mr Edgar Waite, curator of the Christchurch Museum, has obtained some further information regarding the scope of the collection and of the building in which the historical treasure is stored.

The gift was made by the late Mr David Scott Mitchell in 1898, and he stipulated that the 30,000 volumes, prints, engravings and pictures that he was prepared to hand over to the Government should be properly housed in Sydney, and that they should be kept separate and known as the Mitchell Library. For some years, owing to changes of Governments, it was impossible to select a suitable site for the building in which to store the valuable records of Australia's life, but in 1901 competitive designs were invited for a library, and in 1906 a site in Macquarie Street was decided upon. Last year the building was completed and the library installed. Experts were engaged, and the library has been classified according to the Dewey system, and divided into four sections:—(1) Manuscripts and papers; (2) coins, medals, medallions, tokens and miniatures; (3) books, chiefly on early Australian history; (4) portraits, maps, sketches, plans and engravings. Although the collection is distinctly local, there are other valuable things, with no particular bearing on Australian life, that would find a cherished place in any collection of old records. Among them are two "Books of Hours" printed on vellum and dated 1402.

The building in which the Mitchell Library is housed is up-to-date in every respect, and particular care has been taken to guard against the bogey of all collectors, fire. The shelves on which the books are placed are of steel, and, although some of the show-cases are of Java teak, wood, where possible, has been replaced by non-inflammable material. A feature of the library is an automatic lift, which can be manipulated from floor to floor by the mere pressing of a button, and the doors leading to the lift will not open until it is exactly opposite the floor and is stationary. Electric lighting is used everywhere, and no pains have been spared to light the interior.

The collection of books and manuscripts includes the first newspaper printed in Australia, the "Sydney Gazette" of 1803; the first book, the "New South Wales Standing Orders, 1802-1808"; the first book of verse, Barron Field's "First Fruits of Australian Poetry, 1819"; and the first theatrical playbill issued in 1800. There is a complete set of Australian almanacs from 1806, and a copy of every work of note published in Australia from 1810 to 1900. The old manuscripts are bound in 1000 volumes, and include some almost priceless writings. There is the original journal of Sir Joseph Banks, who accompanied Captain Cook on his first voyage around the world. There are the journals of Pleyer-Nuyts (1827-37) and of the host of intrepid explorers that assisted in the conquest of the continent. There are diaries of many men who have been prominent in many walks of life, and the manuscript poems of Charles Harpur, the first true Australian poet. In addition to the bound volumes there are thousands of letters, and other documents with special reference to Australia's great men, letters of Sir Henry Parkes, Sir Joseph Banks, Mr John Dunmore Lang, Captain Piper and a host of others who have been closely identified with the history of Australia.

The value of the collection cannot well be estimated, although at the time when Mr Mitchell made the offer he stated that the amount spent in making the collection was approximately £30,000, and that he proposed to continue adding to it at the rate of £800 a year.

Mr. Edgar W. Waite, F.L.S., Curator of the Canterbury Museum, Christchurch, New Zealand, is at present on a flying visit to Brisbane, having taken advantage of the maiden voyage of the Orsova, from Sydney. Mr. Waite, who left the Australian Museum, Sydney, three years ago, to assume charge of the Canterbury Museum, has added largely to the collections, the most notable acquisition being the skeleton of the largest whale in the world. This leviathan was stranded on the west coast of New Zealand, and measures 87ft. in length. Mr. Waite is president of the Canterbury Philosophical Institute, and was a member of the scientific expedition which recently investigated the natural products of the sub-Antarctic islands, and incidentally picked up the survivors of the ill-fated Dundonald, wrecked on the Auckland Islands, the men having experienced great hardships for seven months. Mr. Waite, who is staying with Mr. R. Hulsen, Ascog-terrace, Toowong, will return by the Orsova to-morrow.

There is a probability that action will be taken by the Canterbury Philosophical Institute regarding the Government's proposal to issue licenses for the taking of seals on the Campbell and other sub-Antarctic islands, and that representations unfavourable to the proposal will be made to the authorities. Several members of the scientific party which visited the islands towards the end of 1907 confirm the statement that all the fur seals on the islands will be exterminated in two seasons if licenses to kill them are issued. When asked his opinion, Mr Edgar R. Waite, Curator of the Canterbury Museum, who was one of the party of scientific men that visited the islands in 1907, said that he thought that the issue of licenses would be a great mistake. The fur seals were practically exterminated in 1824, when between seventy and eighty thousand sealskins were taken from the islands. The protection afforded during the past few years had resulted in a small increase, but if the seals now on the islands were to be killed it could be taken that the species would be almost exterminated. Mr Waite could not say that it would pay anyone to go from New Zealand to take up sealing at the sub-Antarctic islands. It might pay men on the islands or whalers in connection with their whaling.

24. Wed.

Mrs Speight visited
Rose to lunch and
Speight joined me -

25. Thurs

Sent some Bermuda
Is. fishes to Allan &
asked him to look
over my Norfolk Is.
list.

26 Fri

Paid Brauer £50 to
operate in wool for
me. Sub-Committee
visited Museum re
my suggestion as to
housing Old Colonists
Section Collection.

28. Sun.

Took Claude out on ladies' bike with the Ariel Connection & Gerty Hall in the afternoon. We went out splendidly with a fair wind, but this & Gerty's weight proved a tax on the engine & at times I had to assist with pedalling.

29. Mon.

Board meeting on the estimates. Saw Editors of 'Press' and 'Times' and suggested leaders on proposal of Government to issue

licences to kill seals
on Southern Islands.

30. Tues.

Letter from Pascoe
(see 10th) offering £550
for "Burley" in response
to my figure of £600.
Some members of the
Council of C.P. I met
Bickerton & discussed
schemes for making
his theory better known
in scientific circles.
Brauer told me that
wool had been
bought in Auckland
at a satisfactory
price

1. Wed. December.

Annual meeting of
C. P. I. Raine elected
President. I presented
paper on N.Z. Fishes.

2. Thurs.

I signed testimonial
to Chilton as Editor
of Sub-Antarctic Vol.
Replied to Pascoe &
declined his offer.

3 Fri

Gave "Press" a notice
of Centrophorus plumketi.

4. Sat-

Had 4 legs turned &
Commenced to make a
duck music stool.

CENTROPHORUS PLUNKETI.

A firm of fishmongers in this city recently sent to the Canterbury Museum the body of a shark, which they had received from Kaikoura. It was taken by Mr A. D. Goodall in 130 fathoms of water, and was one of three captured at the same time. The fish proved to be of a genus hitherto unknown in New Zealand waters, and was of a new species.

When Mr E. R. Waite, curator of the Canterbury Museum, accompanied his Excellency Lord Plunket on his tour of the Southern Islands in 1907, it was remarked that a new bird had been designated after Lord Ranfurly, the present Governor's predecessor. Lord Plunket then jocularly made the request that if a new species of fish were drawn to the surface it should be named a "plunketi." Unfortunately no novelties were taken during the cruise, and the new name suggested could not be bestowed.

A new shark in these waters is not an everyday occurrence; so when the Kaikoura capture was received, Mr Waite wrote to his Excellency and asked permission to associate his name with the new species. Lord Plunket, in a humorous reply, says:—"I have much pleasure in accepting the honour of having your new shark named after me. Should a portrait or description of the shark be published, should much value a copy. Trust he will not meet me when bathing and claim relationship.—I am, etc."

The name of the new shark will be "*Centrophorus plunketi*." The specimen in the Museum, which is not the largest of the three captured, is 4ft 8in in length. It is characterised by having two fins on its back, each preceded by strong spines, and the head is large and flat. The genus only frequents deep water, and is most

numerously represented in Japanese waters. It is allied to the dogfish, and is not a man-eater. Even if by any chance it should come to the surface beside a bather, it would not be likely to make an attack.

5. Sun.

Planted Kidney beans
worked further at
Kensis stool.

6. Mon.

Learned that Museum
Committee have put
£25 extra on estimates
for my salary.

7. Tues.

Brauer called told
me that Bowran wants
to sell his F.N. motor
for £22. (Magneto)
called to see it &
asked for trial.

8. Wed

Put Advt. in Press

Museum Committee
meeting. Cinematograph
pictures at night.

9. Thurs
wrote Gill for papers
on fish meeting for
Presidential Address.
Found that Bowron's
F.N. is only $1\frac{3}{4}$ lip
whereas mine is $2\frac{1}{4}$.
So should not gain by
dealing.

10. Gave Rose her first
bicycle ride by means
of the ariel connection
Letter from Horning
"Burley" let @ 17/6
Application "Headingley"
to be repaired inside
out £18-2-6.

Letter from Allan, he
was going ~~out~~ for a
holiday & therefore my
requirements as to
Norfolk Is. fishes will
have to wait (Nov 25)

10. Fri.

Made enquiries as to
a bicycle for Claude.

11. Sat.

Finished music seat &
in evening I visited
Baker. An interesting
man, he lights his
house & workshop with
electricity & has all
sorts of natty contriv-
ances in the way of
tool adjuncts.

13. Mon.

Though both the nests
(of which I have four)
+ the Goldfishes are
in good condition, neither
have bred this season.
So far.

14 Tues

Letter from Mr. Waile
ack. photo of Claude.
Letter from Poole from
Dauranga.

15. Wed.

Had new tyre put on
back wheel of pedal
bike, bought B.S.A.
bike (second hand)
for Claude.

16 Thurs.

Anniversary Day. I
took afternoon off & [93]

went with Rose and
Claude to Victoria
Lake so that C. Night
sail his "Mermaid"
She made one trip
in safety, the clock-
work propelled screw
going for a remarkably
long time. At the
second essay she
was swamped in 4
feet & she had to
be located & fished
up from a canoe.
Received "Hute and
Hute playing" from
Rudall Carte & Co.
Letter from Etheridge
re Nugget & casts of
snakes.

17. Fri
gave Claude the
bicycle for Xmas.
he broke up for the
holidays.

18. Sat
Had arranged with
Brauer to go for a
motor run, but he
did not turn up.

19. Sun.
Find that the triangle
in the Ariel connection
by means of which
the handle bars are
connected are very
soft and bend too
readily.

20. Mon.

Board meeting.

21. Tues

To Cinematograph.

22. Wed

Spent evening at the
Allans to meet Mr
Pawson.

23. Thurs.

Wrote to Allan. Took
cycle to Suckling he
says he cannot fit
spring forks. bought
new belt.

24 Fri

Received first copy
of Sub. Antarctic Vol.
issued 22nd Bought
an Actua brazing
lamp.

25 Sat.

Xmas, Violent wind
+ rain storms all day
a small poplar in
our yard was blown
down against the
house but clear of
door or windows. I
sorted out flute music

26 Sun.

Went to Museum in
morning. a few
trees blown down in
the park.

27 Mon.

Took Claude out we
both rode "Ordinaries".
In the evening the
Cresswells came round

28. Tues.

Saw by newspaper
that Brauer had
fallen from a train
+ was laid up. I
called on him and
found him to be
badly punctured. I
ordered a small light
dredge for use at the
Chatham Is. Spent
evening at Cresswell's.

29. Wed.

Took Gerly Hall's bike
to town to have a
fixed handle fitted.
So that I can use
the Ariel attachment
without having the
steering affected.

In the evening I took
Loe for a ride, the
alteration in the ar-
rangements proving a
success. Called to see
Brauer who has now
been removed to a
private hospital.

30 Thurs.

Finished my paper
on Kermadec Island
fishes Allan having
written to say he is
too busy to make the
comparisons I asked
for. I handed in the
paper, also "Notes on
N. Z. fishes" for pub-
lication in the J. N. Z. I.
They include 5 plates.

Visited Brauer in the evening. Rose taking him some fruit.

Council meeting of C.P.I. we fixed price of Sub-Antarctic Report to members @ 30/- & to authors & members of the Expedition 21/- Gudex and Jennings may accompany me to the Chathams if I am able to get away.

31. Fri

Visited Brauer.

January

1910.

1. Sat.

Took Claude for a
run on the "connection"
Called to see Brauer
Also on

2. Sun.

Also on

3. Mon. also on

4. Tues.

Claude was taken
to Summer by Rose
& I joined them per
Motor in afternoon
A violent storm came
up & we were hurried
back, I to Museum.

5. Wed.

Called meeting of C.P.S.
Chatham & Committee

for Friday. "Waikare"
wrecked in Dusky Sound.
6. Thurs.

Sent draft £33. 3. 6
to Dibb & Co being the
due remittance less
£4. leaving £175 of
principal due. Wrote
Mr. Waite to Hornum & Co
authorising expenditure
painting Headingley out
side £11. at expiration
of Cooper's lease but
declining to authorise
inside work until they
had examined and
reported.

7. Fri

C. P. I. Committee on
Chatham Is. decided

to write to Board
College & ask that
the £50 voted last
year be available
this year. Visited
Praner who will leave
the hospital tomorrow

8. Sat.

Saw Russell, he will
not permit me to
go to Chatham's this
year, so that the
expedition will fall
through.

9. Sun.

Evening at Creswells
music.

10 Mon.

Horsley, The Creswells
& Miss Kirk in evening

11. Tues.

Received meowle tax
demand £2-11-6

12. Wed

"Canterbury Times" con-
tains photos of the
Museum and of the
group taken.

13 Thurs

Sent off "Canterbury
Times" containing pic-
tures of Museum &
of "Waikare" to seek to

to Alfred.

Mrs W.

Bellie B.

Paterson

Down

Etheridge

Belle

Fanny B

Chadwick

Hellawell

Joseph

Brauer came in the
evening the first time
since his accident.
Paid Univ Soc sub £.3.

14

Fri

Paid Income Tax £2.11.6

Gas &c £1.3.2

I gave Haynes some
New Guinea & Austr.
birds skins. Later he
brought me a nice
small Cloisonné jar.

15

Sat.

Overhauled Bike, ground
in valves. Refixed
muffler etc.

16

Mon.

17

Addressed 100 envelopes
Museums & Societies
for prospectus of
Sub. Antarctic Vol.

18. Tues.

Recommenced examination of Artedidraeo now having Lönnberg's Swedish and polar fishes -

19. Wed -

Decided to describe Artedidraeo as new
A. shackletoni &
commenced drawing

20 Thurs.

Sent off MS and drawing of Artedidraeo to Murray who has the publication in hand -

21. Fri

Finished addressing the second hundred

envelopes for the
sub antarctic prospectus.

22 Sat.

The motor frequently
throwing off the belt
I found the pulley &
hind wheel out of
alignment. The all
(incl Messrs Hall)
went to Pathé pictures
in evening.

24 Mon.

Took motor in, to
have alignment of
wheel adjusted. Wrote
D. G. Stead for pairs of
Heterodontus for a
Mr. Bull of Manchester

25. Tues

Branner suggests that he shall give me lessons in German in return for a course in Zoology.

26 Wed.

Working slowly at the trawling fishes, now at the Macrouridae. Spengler left to attend meeting N.Z. Institute in Wellington. Chilton will probably be appointed editor.

27. Thurs

Have been for some time writing desultory notes on fishes with idea of publishing

have just finished
the Apodes.

28 Fri.

The following appears
in the Press:- Thomson
must have me in view,
the drawings for the
Kermadec Is. paper
probably shaking him
up -

At the New Zealand Institute meeting to-day, Mr G. M. Thomson, M.P., made an appeal for an illustrated catalogue of New Zealand fishes. If anyone desired, he said, to know the name of a particular fish, and to identify it, he would find it almost impossible to do so. There were lists of fishes but no catalogue. A catalogue of the marine mollusca was in preparation, but he thought the matter of a catalogue of the fishes of New Zealand should be prepared. He suggested that the New Zealand Institute should bring the matter under the notice of the Government, with a view to one such catalogue being prepared and printed in the near future. The members of the Council of the Institute heartily endorsed Mr Thomson's suggestion.

29 Sat

Benham called in on
his return from Wel-
lington - Tom Hall.
visiting his sisters, we
all went to Pathe's
pictures.

30 Sun.

Tom Gerty Claude &
self went for bike
ride after breakfast
but when we got to
Belfast the rain
came & we were all
wet through long
before we reached
home.

31. Mon.

Rain - Board Meeting -

February.

1. Tues.

Went with Rose, Claude & the Halls to "Fullers".

2. Wed.

Claude recommenced school. Bought new books for him as he is promoted. Regan sent me on loan.

Delfin's Cat. Pecos Chile & I wrote to the latter for a copy for my own use.

Mr. Hoggard and Miss Stephens in evening.

3. Thurs.

Tom Hall returned my bike which I had lent him, he

left for Sydney to
day.

4. Fri.

Meeting of Lakes
Committee of C. P. I.
we decided to visit
Lake Sarah, Feb. 19th

5. Sat.

Spent afternoon with
Haynes and bought
from him a Stevens
22 bore rifle fitted
with Lyman sights - 50
Saw a skin of Trag-
elephas auersii, of
which I have a
drawing by Auers -

6. Sun.

Claude + self cycled
to New Brighton, met

The Misses Hall, had
a swim with them
+ met Rose who went
by train later. We
afterwards learned
that two young fellows
had been drowned
earlier in the day -
We all rejoined at
"Matariki" for tea -
Hordley came later.

7. Mon

Praner came in the
evening + suggested
a course in German

8. Tues.

Took drawing of
T. angasi to be
framed as Haynes
thinks he can find

a purchaser for it
9. Wed.

Cooking up illustrations
reels of slides for
my Presidential Address.

10. Thurs

Bought cartridges for
W. Stick gun - 9 mm
50 for 57-.

11. Fri

Took kitchen clock
to be put right,
some of the pivot
holes being worn
oval-shape.

12. Sat.

Took Motor to and
from Belfast in
the afternoon. Pictures
at night.

3. 1911.

13. Sun.

Went with Claude
to Harewood in the
morning, placing
my hand on his
back while he "free-
wheeled".

14 Mon.

Wrote Monthly Report,
suggested conference
with other Museums
re duty charged. &
Asked for money to
remove skeletons of
Cetaceans from N. 3
room to Whale House
& to supply new cases
for bird groups to
be mounted for the
N. 2. Collection. Frame
for T. angasi 8/6.

15 Tues.

Paid Gas &c. £1.3.9

16. Wed

Received papers from
Königsberg & Lahille -

17. Thurs.

Motored to New Brighton
had tea & a swim
with the Misses Hall.

18 Fri

Packed apparatus &
placed on rail for
Broken River.

19. Sat.

Left Station @ 7. am
for Broken River with
Farr. Hilgendorf
joining us at Ralleston
Took coach to Lake
Sarah, where the

P. W. D. had erected
2 tents for us. The
~~following I wrote for~~
~~the "Press."~~ Spent
the afternoon in
surveying the lake.
20. Sun.

Dredged & otherwise
collected

21. Mon.

All had a swim.
I walked over to
Lake Grassmere &
at 4:30 the coach
picked us up for
Broken River. Wrote
following account in
the train & left
it at "Press" office
at 10.0 pm.

22. Tues.

Received letters &
fish etc. papers from
Lönnerberg & Lahill,
in response to mine. x.

23. Wed.

Paid subscriptions
Linnæan Soc. £3 —

" NSW. £1-1-0

In afternoon I took
Row to opening of
Chemical Laboratory
by the Premier, and
reception afterwards
all to the pictures.

x. Tues. we went to the
Review by Kitchener
his motor car pulled
up alongside our
blocked train.

SCIENTIFIC WORK IN CANTERBURY.

INVESTIGATIONS AT LAKE SARAH.

In addition to the more usual function of scientific societies—the holding of meetings, the reading and publication of papers—the Canterbury Philosophical Institute has of recent years busied itself with active field research, the most important undertaking being the expedition to the Southern Islands of New Zealand, resulting in the production of the two volumes which are expected to be issued from the Government Printing Office next month.

The Institute is also watching the progress of the Arthur's Pass tunnel, the officers in charge kindly taking observations for the work the Institute has in hand. Another of its projects is the investigation of the waters of the artesian system of Canterbury, and papers have already been published by Dr. Farr and Mr. Florance.

On Saturday last the initial investigation of the Canterbury Lakes was commenced, the scene of operations being Lake Sarah, near the Cass, on the West Coast route. All the members of the Lakes Committee could not take part, but Dr. Farr, of Canterbury College, Dr. Hilgendorf, of Canterbury Agricultural College, Lincoln, and Mr. E. R. Waite formed the party. The operations were of a varied nature, much time being occupied in making a careful survey of the lake, so that the biological and geological work could be properly plotted. This was carried out by Dr. Farr, his companions acting as chainmen for the time being.

The depths of the water were taken in various parts, and, contrary to the usual statements as to the lake being of very great depth, it was found to be comparatively shallow; the greatest depth being 21 feet. The lake is basin-shaped, and has been formed by a slip which blocked the course of a former stream. The whole of the bottom was found to be covered with vegetation, which carpets the floor to the depth of three or four feet. The commonest plant is the Water Milfoil, which, by aid of the water glass or water telescope, was seen to present a remarkably even surface. The deeper waters supported the beautiful plant *Nitella*, so well known to workers at the microscope for the facility with which the circulation of its fluids can be seen. It is of very beautiful green colour, and its red fruit, now fully ripe, makes it a very striking plant indeed. Nearer shore two little plants form the carpet. These are technically named *Isoetes* and *Pillularia*, and among these the fresh water mussel lives, its valves being almost buried in the mud. In places, dense masses of *Raupo* form the margin of the lake, and it was ascertained that it thrives best in from five to seven feet of water. Inside these masses a sedge was met with—giving place on the land, first to a zone of rushes and then to the tussock of the dry land. The creeks supplying and discharging the waters of the lakes enter and leave within a short distance of each other, and in these creeks the *potamogeton* flourished, while their banks supported the old English favourite musk—evidently an importation. Forget-me-nots were also met with, these probably being likewise introduced.

Forget-me-nots were also seen, these probably being likewise introduced.

The observations made from the boat consisted in recording temperatures of the air, the surface water, and the bottom, and at 5 o'clock in the morning the surface water was found to be 16 degrees warmer than the air. The degree of cold may be gauged from the fact that our tents were covered with hoar frost in the early morning, which did not disappear until long after the sun was well up. The life of the surface of the water was collected by means of the tow net, drawn after the boat, and that in a vertical direction by means of a plankton net lowered to the bottom and drawn to the surface. The bottom vegetation was secured with the dredge, while the depths were ascertained by an ordinary lead-line. The insect life over the lake and around its margins was vigorously collected and preserved for future study, and of course all the collections were so treated, it not being possible to make accurate determinations on the ground.

Among the insects the dragon flies were in especial evidence, four species being obtained. Large swarms of midges were everywhere, forming columns like smoke in the air. A few May flies joined forces with the midges, but not many were seen.

Dr. Hilgendorf noticed a curious fact in respect to the presence of the bot flies which lay their eggs in the nostrils of sheep; it not being expected that these pests would be found in a district so far removed from the more thickly cultivated parts of the country.

The sheep on the flats close to the lake were seen to be carrying their heads close to the ground, stamping their feet and moving about uneasily in their efforts to escape from their tormentors.

The life history of the bot fly is briefly as follows:—The eggs are deposited in the nostrils of the sheep, and the grubs that hatch from the eggs make their way up the nasal passages until they reach the cavity between the front of the brain and the bone of the forehead. Here they remain for eight or nine months, by which time they have reached a length of fully half an inch. A very striking feature of the grub of the bot fly is the great thickness of its body, it being almost equal to the last joint of the little finger of a man. When thus full grown the grub releases its hold, and is squeezed out by the sheep on to the ground. Here it goes through the chrysalis or resting stages, and finally emerges as the adult fly, which in January or February proceeds to lay its eggs in the nostrils of another victim.

Eight grubs are generally found in the head of a sheep, possibly the product of as many flies.

The dredgings revealed the presence of a shellfish called *Limnea*, a species of which, in Britain, is the intermediate host of the dreaded fluke worm which inhabits the gall ducts of the liver of the sheep. The fluke is fortunately rarely found in the South Island of New Zealand, but if once introduced there is no doubt that it would avail itself of the presence of this *Limnea* in its endeavours to establish itself. Ducks on the lake, gulls, shags, and terns flying over the water, and the harrier, hawks, larks, and pipits on the land, were the only birds seen. Trout are said to be common in the lake, while the familiar "bully" was found to be extremely numerous.

The comfort of the party, and, it may be added, the success of the undertaking, was very largely contributed to by the extreme kindness of Mr H. Patterson, engineer of the Midland Railway line. He had the necessary tents erected in advance, and so saved the party from the necessity of taking their own canvas. He also placed the boat at the disposal of the investigators, without the use of which it would not have been possible to carry on the work.

The party returned to Christchurch last evening well satisfied with the results of their initial work on the scientific investigation of the Canterbury lakes.

24. Thurs.

Attended Syllabus
Committee C. P. I.

It was decided to
open the session with
an address on the
Comet (Halley) wh.
will be well visible
in May. The Ex-
presidential Ad-
dress will thus come
a month later. I
saw Annie & Gertie
Hall off at 7. am
for the West Coast
they having finally
left Christchurch.
Brauer came in
the evening & looked
over my German
exercise -

25. Fri.

Marviner who has undergone two operations for appendicitis & intestinal trouble died ~~yesterday~~ this morning. The College staff was filled with surprise to-day when it was rumoured that the Chairman had resigned his seat on the Board. The rumour was confirmed when the evening papers came out. (See cutting.).

Mr George R. Marriner.

News was received in Christchurch to-day of the death in Wanganui, early this morning, of Mr George R. Marriner, Curator of the Museum there, and well known and respected by a large circle of friends in Christchurch. The late Mr George Marriner was only about thirty years of age, and had enjoyed good health up to a few weeks ago. He was then operated upon for an internal disorder, and although he rallied for a time, finally succumbed. He came to New Zealand with his people in 1880, and received his early education at the West Christchurch School. He left school to take a position as assistant under Dr. Dendy in the biological laboratory at Canterbury College, and remained at the College until he left for Wanganui, a year or so back. He matriculated at Canterbury College, and made a special study of biological work. He carried out some valuable original researches, and was the author of a publication bearing on the life history and habits of the kea, contributing also a number of papers at meetings of the Canterbury Philosophical Society, of which he was a prominent member. He was a member of the recent sub-antarctic expedition which visited the southern islands, and was also a member of the committee of the Ornithological Society of Australasia. While in Christchurch he was a member of the Spreydon Baptist Church, and was the head of the Clarence road branch of the church until he left for Wanganui. He took a prominent part in Church matters at Wanganui, and was leader of the Young Men's Bible Class there, deacon of the church, and choirmaster. The body is to be brought back to Christchurch, and the funeral will take place at the Linwood Cemetery on Tuesday.

Canterbury College.

Resignation of Mr G. W. Russell.

Very general regret will be felt at the resignation of Mr G. W. Russell, M.P., from the position of Chairman of the Board of Governors of Canterbury College. This morning the Registrar (Mr Geo. H. Mason) received the following communication:—

"Dear Sir,—Herewith I beg to hand you my resignation from the Board of Governors of Canterbury College. It is now nearly thirteen years since I joined the Board, for three of which (since February 4th, 1907) I have been honoured by being elected chairman. The strain imposed upon my health and business time, considering the other public duties I have to perform, I am no longer able to bear. I therefore reluctantly retire, and at the same time beg to thank the Board for the assistance given me during my chairmanship, and for the courtesy I have always received. Wishing the Board success in all departments.—Yours faithfully, G. W. RUSSELL."

Ever since he has been a member of the Board, Mr Russell has thrown himself into the work of the College with rare enthusiasm and energy. It is no mere empty compliment to say that he has had the interests of Canterbury College at heart. Though he has been a prominent worker in connection with other public bodies and affairs, he has devoted very special attention to the College, and made its affairs his special study. He is probably better known as Chairman of the Canterbury College Board of Governors than in any other capacity. It is largely due to his initiative that the College block of buildings is one of the finest in New Zealand, and one which gives the city the distinction it possesses in educational buildings. Shortly after he became a member of the Board he was instrumental in having its constitution altered, broadening the constituencies, and making it more representative. When the new Public Library was started, Mr Russell was prominent in connection with the preparation of the designs for the extensions, and took charge of the necessary legislation in the House. He has been particularly energetic in adding to the land property of the Board, and as a result of his labours, the Board now own practically the whole of the College block, with the exception of one corner. He also carried through the purchase of the land and buildings for the extension of the Girls' High School. He will also be remembered for his work in connection with the Coldstream reserve, the College's right to which was admitted by the Government, and £4567 of accrued rents paid up. In the educational side of College work it is interesting to note that during Mr Russell's regime the erection and equipment of the hydraulic laboratory of the School of Engineering was undertaken, and is now nearly completed. His name will also be connected with the Physical Laboratory, which was opened by the Prime Minister on Wednesday last. A chair of physics was recently created, and an appointment will be made shortly. The elevation of the lectureship in economics into a chair was also done during Mr Russell's term of office. Mr Russell has always favoured a liberal treatment of the Canterbury Museum in the Board's financial arrangements, and anything that tended towards its improvement had his warmest support. He was instrumental in securing the establishment of the Old Colonists' section, which should make such an interesting part of the institution's treasures. The purchase of the Okarito whale was carried through under his chairmanship. The staff of the Museum was added to by the appointment of an assistant curator, and there was a reorganisation of the office staff and extension of the College offices. The institution of the winter popular lectures, and the annual Empire Day celebration by the combined institutions under the Board, were the results of suggestions made by Mr Russell. The staff have always found Mr Russell a warm friend, and the students have to thank his initiative for many of the privileges they now enjoy. The erection and equipment of the Boys' High School gymnasium was one of the works in which Mr Russell took a particular interest. His retirement from the Board will create a vacancy that will be extremely hard to fill, and the Board will be losing the services of an extremely capable and painstaking chairman.

27. Sun.

To Museum in the morning.

28. Mon.

Braver came in the evening & looked over my German - I had previously called to see Hight who is in hospital following an operation for appendicitis

1. March -
Tues.

Attended funeral of
Marriner in the
afternoon Took Rose
to "Country Girl".
The Motor engine
"jibbed" & I took
it out of the frame
and to pieces. &
found that the screw
holding the gudgeon
pin had fallen
out.

2. Wed

Took Engine piston
to Suckling to have
new screw etc. fitted -

3 Thurs.

Spaight being away
I acted as Secretary
to Early Colonists'
Committee. Amoss
& Everist spent the
evening with us -
Received papers on
breeding habits of
fishes from Gill, in
response to my re-
quest. of Dec. 9th.
Commenced to make
negatives of fishes'
nests for lantern
slides for presidential
Address - Ram

4 Fri

Spent evening at
Cresswells. Ram

5. Sat

At Museum in the afternoon reassembled the engine which I received from Suckling Took Roe to "Havana" but an indifferent piece.

6. Sun.

Commenced to put together notes for my Presidential address.

7. Mon.

Finished work on the motor bike which ran well. Brauer came in the evening.

8. Tues

Wrote report for the Committee meeting.

9. Wed.

wrote Mrs Waite &
to Poole - Tauranga -
making negatives for
lecture purposes.

10 Thurs.

Mr Hogard Miss Stephens
in evening - Music.

11. Fri.

Paid Claude's School
fees £5. 2. 0. Books 11/7
+ Gas Bill. £1-16-3.

12 Sat.

Motor Belfast and
Took Rose & Claude
pictures at night.
Answered Aarto re
Motor cycles, one
to sell, one to buy.

13 Sun.

Answered Adot. Motor
for Sale. worked in
garden, planted bulbs.

14. Mon.

Brauer telephoned
that Cable advice re
wool sales was not
very hopeful.

15. Tues.

Visited Brauer who
looked over my
German exercise &
we played Pingpong
Met Robinson, new
lecturer on Surveying
at the College.

16. Wed +

motored to Fitzgerald
Avenue re Motor

bike, Owner out.
Received letter from
Mrs Waite, she has
sold her new house.

17. Thurs

Photo'd casts of
snakes which I have
just coloured, also
done by "Fines".

Commenced article
on Australian Snakes
in the evening.

18 Fri.

Miller, owner of the
(Sims Engine) Bike
brought machine
up - £17. 10. 0 but
Fleming told me
that Sims's Engines
are hard starters.
Finished article on

"Deadly Snakes of Australia" for submission
to Editor of the "Times".

19 Sat.

Took Claude in trailer
to Mr. Price's returning
with Pears & apples.

20. Sat.

Brauer called in the
morning. Negatives
of East Snakes turned
out well.

21. Mon.

Equinox opened with
hoar frost and hail
during the day. At
the Board meeting Adams
was elected chairman
Nae Russell - Spent
evening at Creswells.

22. Tues.

Have got as far as
Cepola (new to N. Z.)
in work upon the
"Kora Niven & Fishes. I
wrote to Allan and
enclosed a note for
inclusion in his
"Endeavour" report;
proposing the genus
Maccullochia for
Histioporus labrosus.

23. Wed.

Went with Collins &
Haynes to Redcliffs &
prodded & dug for the
buried Maori anvil
but without success.
My photos of Volkner's
grave & Te Kooti's buggy
appear in "Weekly Press"

* photographs & my
article in Australian
Snakes in "Canterbury
Times" both of this
week's issue -

25 Good Friday

Started before 6. am
with Claude. Cycled
to foot of Hills &
walked to Oyers' Pass
Claude had his
first sporting experi-
-ence - I had taken
the 22 bore rifle &
we got 3 rabbits -
returned for lunch.

26 Sat.

To Museum -

28. Mon.

At home. Wet. in
workshop.

29. Tues.

At Museum. Letter
from Mrs W. also
from Gill. Rose went
to races, lost money
I to dentist & had
two teeth filled. The
Weekly Press contains
pictures of Museum
birds. Bought 3 pts.
Keuleman's "Cage
birds". 3/- Wrote to
Mrs W. & sent her a
photo of "Matariki".

30. Wed.

Made some lantern
slides from "Nests of
fishes" negatives -

31. Thurs.

Interviewed Bristol of the weekly Press, and sounded him in regard to publishing a series of illustrated articles on N.Z. fishes. though willing enough to publish such & let me have the blocks (specially etched on copper) he said that he could not pay much for them even suggesting 10/- per article the illustration included. In order to show-off the motor bike to Haynes I ran it at full speed for 200 yards & then put him aboard, his maiden essay. he ran

50 yards & then pulled
up - just as he was
stopping the front forks
broke off from the head
the extra stay only
holding the machine up.
An examination showed
a fissure half-way
through, evidently of
some standing.

1. Fri. April.

Made some more lantern slides. Received proofs of two papers from Government printer.

2. Sat.

Developed influenza + spent afternoon in bed

3. Sun.

In bed.

4. Mon.

Still very leedy, but went to work. Council meeting of C. P. I. The sub-antarchic volumes received, I paid my £1-1-0 + received the work

5. Tues.

Took photos of heads
of Bison & Deer. Whole
plate. Rose developing
influenza. Arranged
to go out with Haynes
tomorrow

6. Wed.

Up at 5:30, called
on Haynes & motored
to New Brighton. We
then walked up the
beach to the mouth
of the Waimakariri
Haynes had taken
a gun and got some
Dotterel. I had
only the .22 bore
rifle. My best was
2 consecutive shots

the first a sitting
gull at 230 yards &
the other a flying
shot. Had a snack
& reached home at
6 pm.

7. Thurs.

Rose in bed she had
an attack of dyspnea
in the evening & I
sent for the Dr. &
afterwards went to
town with the inevitable
prescriptions.

8. Fri.

Rose still in bed
but improving - Dr
Gibson called again.
I cut masks for

the Caution Slides.

9. Sat.

Bikerton having sent
in a paper the C.P.I.
will have to give him
an evening.

10. Sun.

Ran out on the motor
I suspected some cycles
advertised. none was
better than my own.
Called at one house,
a small lathe advertised
I found it to be Wil-
liams. I bought the
machine £5. also two
old pattern telephones
at 10/- each.

11. Mon.

Attended Council C.P.S.
to fix up meeting for
Bickerton. Received the
cable & fixed it up-

12. Tues.

Had an attempt to
fix the telephones,
but could not master
the complicated wiring
& switches etc.

13. Wed

Museum Committee
passed my scheme for
introducing life - like
copies of N.Z. birds. -

* Letter from Horning
& Co. the tenant of
"Burley" wants a

Stand pipe in the garden. Replied that it could be fixed at a cost not to exceed one weeks rent anything additional could be paid by the tenant if desired.

14 Thurs.

Received 10/- from "Weekly Press" for 4 photos of heads of Museum animals.

15 Fri.

Spent evening with Haynes who has got some Stag heads for mounting from Otago district.

16. Sat

Having received a
Porbeagle fr. Kaikoura
Haynes + I spent
the whole day in
casting it. I gave
him his first les-
-son in Waste mould.
We made both mould
+ cast and got a
splendid result.

17. Sun

Brauer came in the
morning + we had
a cycle ride together.
The foliage is now
showing autumn tints
while the poplars are
fast losing their
leaves -

18. Mon.

Paid Suckling 16/- for
fixing new Gudgeon
pin in bike cylinder.

19 Tues.

Hemming having lent
me some books on
telephones I worked out
the wiring of those I
had bought.

20. Wed.

Letter from Murray
re my paper on the
Antarctic fishes. he
asks me to return the
type of Arctodidracis
shackletoni

21. Thurs

Letter from Allan
he suggests that my
note on Macculloch

he published in P.L.S.
N. S. W. instead of
with his "Endeavour"
Fishes - Went to
Brauer in the evening,
German + ping-pong.

22 Fri.

Had practically made
all lantern slides
for my address and
have written most
of the matter. Got
up at 5. am and had
a good sight of the
Comet (Halley).

23 Sat

All went with Miss
Price to West's Pictures
our first visit to
the new Cinematograph

Theatre - The pictures
are projected a great
distance are quite
steady & we could
easily see the conden-
sation of a man's
breath on the screen

24 Sun

With Claude & Brauer
for a morning ride
called at the pig
farm of Mr. Rowe &
saw some expensive
specimens -

25. Mon.

Very keen frost last
night

26 Tues

wrote to Allan re
Maccullochia etc.

27. Tues.

With Speight Farr &
Loring to Whitehouse
& Totub to select
binding for Chilton's
Presentation Copy
of Sub-antarctic
Report - At last
meeting Board of
Governors, Farr was
appointed Prof. of
Physics. Paper from
Hedley opening of
new wing of the
Museum -

28. Thurs

Received reprints of
Sub. Antarctic Vol.
and sent off many.
Took Rose to "Fulled"

in evening - Claude
going to 'pictures'.

29. Fri.

Received intimation
that the Biological
part of reports of the
Brit. Ant. Expedition
has been published.
It will have been
smart work if my
fishes are included.
Wrote article on "Rats
Brown & Black", for
the Press. as to day
a par. is printed
as a rat nesting in
a tree being an
extraordinary occur-
-rence. doubtless Mus
rattus.

1. Sun. May.

Had a ride with Claude
in the morning & in
the afternoon visited
Mr. Price.

2. Mon.

Secretary of the Art
guild asked me for
an address during
the winter. Rose went
to theatre.

3. Tues.

Letter from Leeds
Nat. Club. informing
me that I had been
elected an Hon. life
member - Replied.

4. Wed.

Presidential address

C. P. J. "~~Life histories~~
" Nesting Habits of
Fishes "

A well-attended meeting of the Philosophical Institute was held last evening, when, after the formal business had been transacted, Mr. Edgar R. Waite read a very entertaining and interesting paper on "The Domestic Habits of Fishes." In prefacing his address, the lecturer stated that owing to the extreme shyness of the fish it was a very difficult task to study it in its native haunts. He then dealt with the diversified characteristics which prevailed in the reproductive processes of various fish, and explained the ingenious manner in which the eggs were protected until they were hatched. Many other fascinating features were dealt with, and at the close of his lecture (which was illustrated by lantern slides) Mr. Waite was accorded a hearty vote of thanks.

5. Thurs.

Birthday. Arranged
for Haynes to exchange
the .22 rifle for a
410 Collector's gun.
Shot 2 Black Jan-
tails in Museum
with Walk-stick gun

Secretary of Y. M. C. A
asked me for a
lecture in ? August.
6. Fri.

Haynes obtained the
'410 gun for me in
exchange. Gave in
title of Y. M. C. A
lecture "Heavy guns
& armour plates in
nature". July 25.
7. Sat.

KING IS DEAD.

HIS MAJESTY DIED AT MIDNIGHT.

AN EMPIRE IN MOURNING.

Though it was known

for the past 2 days
that King Edward was
ill, no one here in-
agined that the trouble
was so serious.

8. Sun.

Took Claude Haynes
to Wamioni thence to
the Estuary across from
Summer obtained a
few birds.

10 Tues.

Attended reading of
proclamation of King
Geo. V. All spent
evening at Hemings.

11. Wed.

Brauer came in the
evening. German and
plastacine.

12. Thurs.

Saw Adams & suggested
that we buy "Museum
Microscope". £12-10-0

Bought scraper board
etc in view of Address
before Art Guild -
Paid Gas bill.

Letter from Mr Pawson
asking Claude to Mt
Somers for holidays.
Sent in return of
Income to March 31
£428. net. Fork of
Claude's bike broke.

13 Fri.

Bought some second-
hand quoit in view
of play during Winter

14 Sat.

Made drawing of
Lake Sarah as a
birthday card for
Farr. (22nd) Soaking
wet day.. Brauer
called in afternoon-

15 Sun.

Morning broke fine
so I cycled to the
station & met the
Mt Herbert party at
9.30 train. Arriving
at Lyttelton 24 of
us took launch to
Purau, thence com-
menced the gradual
ascent to 3012 feet.
Saw a belated Green-
finch at the top

where the wind was
very high. Speight &
Rauig were of party.
returned to Diamond
Harbour after seeing
one of the most ex-
tensive panoramas
I remember, north
to Kaikoura, west
to Mt. Cook, south
beyond end of 90
mile beach & east
the ocean.

16. Mon.

Saw Claude off at
noon to Mt. Somers
The early morning
view of the Comet
showed that it had

"Grown" very much
indeed & extended
over 35⁰ Meeting
of C. P. I. Council -

17. Tues.

Received a pair of
Quinnat evidently
from Ayson. Letter
from Campbell "Sam"
asking for block of
Skua gulls for review
of Sub-Ant. report.
Later got letter from
Ayson asking me to
examine the fishes
& report to Marine
Dept. Wellington. I
wrote an article
chiefly copy of that
I published in 1908

in "Press" and sent it
to "Dominion" in
Wellington. Article
on "Rals" declined by
"Press" crowded out
(see 29th) I sent it
to "N. Z. Herald" at
Auckland. Had ano-
ther morning look
at the comet which
now extends from
near the horizon to
the zenith at 6 am

Took
to the
in the
Rose
Pictures
evening
Claude being
away —

18. Wed.

Spent evening at the
Cresswells. Museo.
Museum Committee meetg.
Bought "Drawing for
reproduction - Harper." 7/6
Ordered Vol. 1. Biology
of Nat. Ant. Expedition
for C.P. I. 12/6.

19 Thurs.

Sent off picture of
Lake Sarah as a
birthday card for Farr
Letters from Campbell
& the Souef. (Melbourne)
& Hull (Sydney) re
my report on Sub-
Antarctic birds.

This night we pass
through the Comet's tail.

Discussed the matter
with Brainer who came
in the evening - he
propounded the idea
that the 'tail' was
merely the shadow
unilluminated by the
sun & therefore the
only portion of its
own special radiance,
rendered visible -

Enquirer.—(1) No; Halley's comet ap-
peared last in 1835. (2) The answer
to this question depends upon what
you mean by a great event. The
following are the dates of the ap-
pearances since the Norman Con-
quest:—1066 (the year of the Con-
quest), 1145, 1222, 1301, 1378, 1456,
1531, 1607, 1682, 1759, 1835, 1910.

20 Fri.

The following appeared
in the 'Press' and I

wrote a reply. The
Museum closed - In
the evening I went
to town & to Leagers
rooms to meet the
rest of the College
Staff en route to
the Cathedral - In
going down the dark
stairs I fell & hurt
my ankle, limped
to the Cathedral &
attended Memorial
Service to the King,
buried this day.
Earlier in the day I
visited Haynes for
bodies of Paradise Ducks
& worked in the
Garden.

THE RULE OF THE ROAD.

TO THE EDITOR OF "THE PRESS."

Sir,—Very few people seem to know the rule of the road properly, and it is in connection with that that I write you.

I happened to-day to be riding one horse and leading another. Now, when leading horses or cattle you keep them on your off or righthand side, and in consequence you keep to the right of the road, no matter whether you are meeting or overtaking, the idea being to prevent the led animal from swinging out into the road and possibly injuring some passerby. In attempting to follow the rule, I was repeatedly blamed for being on my wrong side whereas I was on my right, but nobody seemed to know it.

I think that this fact should be more rigidly impressed on the notice of people, and hope that others may benefit by having their attention drawn to it.—Yours, etc.,

ANDREW BOAG.

21 Sat

The following is my
reply

THE RULE OF THE ROAD.

TO THE EDITOR OF "THE PRESS."

Sir,—In to-day's issue, Mr Andrew Boag says that it is the practice to lead a spare horse on the off or right side of the rider, thus rendering it advisable to travel on the wrong side of the road. Your correspondent thinks that the fact should be more widely impressed on the notice of people by having their attention drawn to it.

The obvious remedy lies with the drover; he should learn to lead the horse on the near side, so that there may be no exception to the rule of the road.—Yours, etc.,

MOTORIST.

Spent all day in
bed nursing a badly
sprained swollen and
discoloured ankle -
Spaight sent Frank
to make inquiries.

22. Sun.

Low came in morning
+ Farr in the afternoon.

23. Mon.

Remained, of necessity,
at home. Haynes brought
me (message per Row)
a Pseudolabrus and
drawing materials +
I worked at this -
Speight called in the
afternoon

24. Tues

Finished drawing of
Chatham Is. Pseudolabrus
Frank brought me
a Polyprius which
I got "on the way."
We had two notable

objects in the sky in
the evening - The
moon rose almost
wholly eclipsed, the
innermost portion only
being directly illumina-
ted - The whole of the
moon could be seen
it looked absolutely
globular through the
glasses and appeared
as though translucent
with a light within
the colour being a
dull orange. The
sky being thus dar-
kened for some time
gave the comet a
chance, but the
height of its glory is

past - it is rapidly
receding and has
again become an
inconspicuous object.
Letter from Wilfrid
Memorial Card of
Alex. Agassiz.

25. Wed.

Frank brought me
the Otolithine ander-
toni and I finished
drawing of Polyprion
Newspaper from Mr
D. & letter from
Pawson. Cresswell
paid me a visit.
The foot is still
"non-standable" upon.

Card.

26 Thurs.

Finished drawing of
Otohuine - and while
Rose went to a
concert at night I
occupied myself in
designing a bookplate
with the Otohuine as
motif. Read Harper -
"Drawing for reproduction"
& made notes for my
Art- Guild address.

27 Fri.

Pawson called at the
Museum yesterday in
my absence. I wrote
to him to send
Claude home on
Tuesday - Frank

brought me Cythus
n-zeal. & Caprominus
abbreviatus and I
worked at the former.
Creswell & Speight paid
me visits.

28 Sat.

Finished drawing of
Cythus. Rose went
to "Peter Pan". Cold
lavage seemed to
strengthen the foot.

29 Sun.

Worked at drawing
of Caprominus * Got
about a bit, giving
the foot exercise.

* finished drawing in
the evening.

30

~~29~~ Mon

Banked the wool
money £50 + £10.
My first essay to
Town. Frank put
me on the motor
but trying the 'push
bike" I rode home
on it. Though I
cannot yet walk.
Paid £1. 10.0 for
plating goods. Recd
telegram from Dawson.
Claude to come home
tomorrow.

31. Tues.

Claude returned from
Mt Somers.

June.

1. Wed.

Made sketch for book
plate - wrote W. Waite
Bought ^{Humoresque} ~~Humoresque~~ L.
Dvorak. Violin piano.

2 Thurs.

Cast Quinnet Salmon.
Ayson called. Bought
fly wheel and crank
7/- Letter from Allan
who is naming a
Zenopsis after me.
I wrote him, telling
him what species I
am figuring. Took
my album of plates
to town to have a
second guard book
made to the pattern.

3. Fri.

King's birthday, and
a General holiday.
At Museum in the
morning and in
afternoon put toget-
-her the stand for
the lathe + drill +
grindstone - circular-
saw etc. machine.
At night transferred
drawing for book
plate to Bristol
board and inked
it in, but left
the coiling of the
fishing line. for
random curved are
not easy thing to
manage.

4 Sat.

Made treadle etc. for
machine, a bicycle
pump utilised for
blowing up the "forge".
Wrote "Benutz den
Augenblick" and drew
"fishing line" in book
plate drawing. "Pictures"
in evening.

5 Sun.

went for a ride with
Brauer in morning
& worked at machine
in afternoon.

6 Mon.

Museum advisory Com-
mittee. Took drawing
of book plate to
"Press" for block making.
Evening at Creswells.
played "500"

7. Tues.

Received Guard Book
No 2. for plates and
arranged additional
plates therein.

8. Wed.

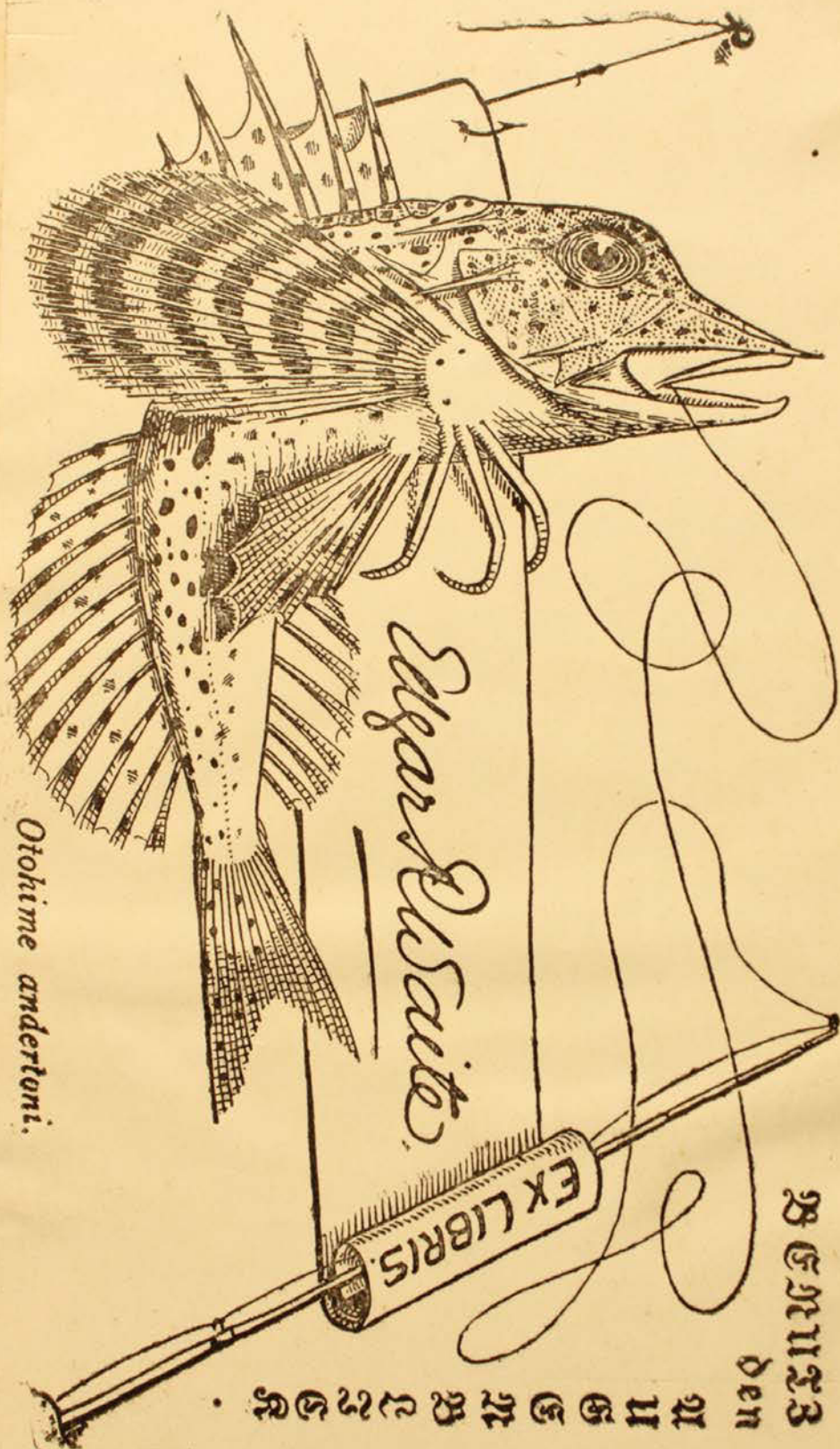
Meeting of Birds'
Protection Committee.

9. Thurs.

Took photo of group
of Pukeko. To Brauer
at night, German &
Puis pong. The date
of my address to the
Art Guild, fixed
for July 22nd.

10 Fri.

Received block of
book plate.



Otholime andertonii.

NOISY BIRDS.

LAUGHING JACKASSES STOP CHURCH SERVICE.

United Press Association—By Electric
Telegraph—Copyright.

MELBOURNE, June 7.

The service at the Coleraine Presbyterian Church was brought to a sudden close owing to the continuous noise made by laughing jackasses perched on the roof. The preacher stopped his sermon, and, the report adds, when the birds had exhausted themselves the congregation was not in a mood to receive his further exhortations.

Mr E. R. Waite, curator of Canterbury Museum, who spent some years in Australia, states that he is not surprised that a whole congregation was disturbed when a number of these birds were on the roof. The noise when two or three are gathered together, he says, is prodigious. He kept laughing jackasses in captivity in Sydney a few years ago, but they made so much noise, especially in the early morning, that he decided to get rid of them. The captive birds made sufficient noise on their own account, but the din was added to by wild laughing jackasses, which were attracted by the cries of their fellows. The Australian laughing jackass is a kingfisher. It does not fish, however, but lives mainly on lizards and snakes, and for its services in this direction it is protected by the Australian Governments. It is a kingfisher because it belongs to the Alcedinidæ, the kingfisher family, which is represented in nearly all parts of the world. The English kingfisher lives by fish alone; the New Zealander spends hours, sitting like Patience on a Monument, waiting for an unwary fish to pass in a stream but it will eat anything, from black beetles to chickens, and is a notorious glutton. An Australian laughing jackass in the Acclimatisation Society's grounds in Christchurch often disturbs the quietness of the gardens by loud and, apparently, uncontrollable fits of laughter.

12 Sun.

Brauer came in the morning and we had a ride. The comet is now becoming very faint as the moon is waxing we shall not see it much longer.

13. Mon.

Paid $7/6$ for book plate block + $8/6$ for 500 pulls. attended Council meeting of C.P.S.

14 Tues.

W. J. Dorris called + spent evening, he is an acquaintance of Wilfrid's + comes from Stockton - Brauer also came.

15. Wed

Museum Committee
wrote to Wilfrid re
Downs + motor bike.

16. Thurs.

Committee passed my
request for "Museum
Microscope to exhibit
slides to public, cost
£12. 10. 0. Spent
evening at Cresswells.

17. Fri.

Took Claude to the
Conversazione, College
Diploma Day.

18 Sat.

Have had nearly a
week of rain - Stayed
indoors + made a
drawing of Pseudo-

Labrus cinctus, Hutt.
Have got as far as
Rabridae with the
Trawling report.

20. Mon.

Decided to issue pre-
liminary descriptions
of "additions" taken
on trawling expedition
& handed in title
for next meeting of
C.P.D.

21. Tues

Letter from Allan
re Cepola & Cythus.
Commenced drawing
of Pseudol. coccineus.

22. Wed.

Received reprints of
2 papers published
in the "Transactions".

the illustrations are
badly reproduced. This
is the third consecutive
day of keen frost.
I wrote to Auderton
re Bay of Plenty
fishes. Replying to my
enquiry Benham
tells me that the
type of Pseudolabrus
roseipunctatus can-
not be found. The
first part of the
publications of the
"Kiurod" Expedition
has arrived but
does not contain
the fishes.

23 Thurs

Sent off reprints. Sent
fishes to Sydney.

Bought 2 Easy Chairs
One @ 25/- One @ 30/-
Paid Dr. Gibson 15/-
worked at drawing
of *P. coccineus*. Letter
from Angus Robertson
sent a further six
copies of Subantarctic
Report.

24 Fri

Put together notes
on Preparation of
drawing for purposes
of reproduction for
my address to the
Art Guild

25. Sat.

Finished drawing of
Pseudolabrus coccineus.

26. Sun.

The first day for
nearly a week, that
we have not had
frost. Brauer came
in afternoon & we
visited Robinson at
Opawa. Called upon
a man at 29 Kilmore
St who advertised
for a motor-bike.

27 Mon

Paid School fees
for term £5. 10. 0
Board meeting.

28 Tues.

The Board adopted
my recommendation
for making storage
under Whale House

29. Wed.

Mrs. Waite sent the
album of illustrated
envelopes posted to
father, also the M.S.
poem "Haunted House".
I wrote to her and
enclosed letter written
by Claude. Letter
from Dr. Vause which
I answered. I also
wrote to Ethel Vause
Raton Rd, Hastings.

30 Thurs.

Made some negatives
for lantern slides for
the Art Guild address.
Made outline drawing
of Corridor, also
a cast. Letter from
W. R. Chadwick, with
photo of nest of a
Capercaillie.

July.

1. Fri.

went to the Pathe's pictures to see the King's funeral.

2. Sat.

Took Rose, Claude, Mai Crosswell and Miss Curlett to West's Pictures. King's funeral.

3. Sun.

~~He~~ Commenced a drawing of ♂ and ♀ Hippocampus -

4. Mon.

Caught a Tasmanian 'Possum in the store room at the Museum and caged it - Sent 4 negatives

to "Weekly Press"

5. Tues.

wrote Allan re Otoburnia
and Pterygostriola

6. Wed.

Attended meeting of
C. P. I. My 'paper' on
Additions to fauna,
taken as read.

7. Thurs

Letter from Lord
Plunket, asking me
to send sub-antarctic
papers to Sir T. G.
Carmichael which I
did & to whom I
wrote. (Governor of
Victoria). Letter
from Allan, he says
that my Otoburnia
is generically identical

with Pterygotrifa
which happens to
be my genus also.
Rose went to theatre
"The girl from Rectors".
Attended meeting of
Early Colonists Com-
-mittee. Went over
engraving Dept. of
the "Weekly Press".
Left Chadwick's photo.
of Capercailzie's nest
with Bristed.

8. Fri.
The Possum refusing
to eat died. a weka
wandering into the
grounds, from the
Domain, replaced it
as I ran it into
my room. Took

tickets for Opera -
"Lady Butterfly"
next Friday for Rose
and self.

9. Sat.

Received 12/6 from
Bristed for 5 photos
for "Weekly Press"
First game of Quoits
of the season. To
Creswells in evening.
to play "500".

10. Sun.

Took Claude out to-
wards the Styx: he
shot his first bird.
a Greenfinch; with
the .410. I got a
Thrush & Yellowhammer.
Brauer in afternoon.

11. Mon.

Sloman saw me re
investigating change
of habit of trout
bred in New Zealand.

12. Tues.

G. M. Thomson called
with his new wife - he
is keen on an illus-
trated catalogue of
fishes, but does not
see how it is to
eventuate.

13. Wed.

James Hay handed
in a cheque for
£100 from J. H. Knight
contribution towards
an addition to the
Museum for the

Early Colonist's Section.
More money will
be certain to come
in, & the Governor
will have to take
the matter in hand!!

14 Thurs.

Museum Committee
approved suggestion to
close Museum two
mornings per week
also issuing of a
circular which I
drew up re sale of
Moa bones.

15. Fri.

Took Rose to Opera
"Madam Butterfly."
Saw Hazon between
the acts.

16. Sat.

Rode out to Burwood
with 410 & got some
small birds.

17 Sun

Made a trap cage
in morning & in
afternoon went for
a ride with Brauer.
Met Clive Rosman
of the orchestra, also
an old flautist, it
transpired that it
was he who sold
me my first "1867
patent".

18 Mon.

Lecture at I.M.C. a
fixed for Monday
next. preceded by

Address at Art-Guild
on Friday.

19. Tues

Hayou called to see
me bringing Blaney
the tenor. "Weekly
Press" contains my
photos as follows.

Head of Red Deer.

Group of Pukeko.

Moreport

Death of Sapphira
& nest of Capercailzie
by Chadwick.

20. Wed

Sent Haynes and
Frank to Kaituna
for materials for
new bird cases.

The last night of

The Opera Co. went
alone, to "Carmen"

21. Thurs.

Mr. E. R. Waite, Curator of the
Canterbury Museum, will deliver a lec-
ture entitled "How I Prepare My Draw-
ings for Reproduction" at the Arts and
Crafts Guild meeting which is to be
held in the Lecture Room of the old
Chemical Laboratory at 8.30 p.m. to-
morrow. The chair will be taken by
Mr. W. S. Lovell-Smith, and Mr. R.
Proctor will judge the competition
work before the lecture.

Visited Crooks and
bought 2 Mechanics
books 5/- each and
arranged for him
to make a lantern
slides of Bewick's
"Thumb Mark" for
my lecture tomorrow
I made several
slides for the purpose.

A subject of considerable interest to anglers was referred to by Mr C. J. Sloman at the meeting of the Acclimatisation Society last night. He remarked that a great many anglers thought that the trout in this country were changing their habits. He was not sure that it was so, but was of opinion that this and other matters connected with the habits of trout were worthy of investigation. The results of such investigation should be placed on record by the Society, so that deductions could be drawn from them in the future. There ought also to be recorded such a fact that during the present year the rivers in Canterbury were subjected to floods at a very inopportune time. This would probably have some effect on the number of trout in the rivers in a year or two, but unless it was on record they might be at a loss to explain matters. It would also be of value to have the literature published by the Scottish Fishery Board on the subject of the early and late runs of fish. It would be interesting to know why fish had ceased to run up and down the Rakaia with the tides. A motion was agreed to empowering Mr Sloman to write to the High Commissioner for New Zealand on the subject of obtaining the literature referred to, and also to Mr Ayson, on the subject of the best method of marking fish.

22 Fri.

Lecture to the Art Guild.

The series of lectures in connection with the Canterbury Arts and Crafts Society was continued last evening, when Mr E. R. Wade addressed a large audience on the subject of "The Preparation of Drawings for Reproduction." Mr Waite said that the present age was one of illustrations, and the majority of people regarded pictures in magazines and books as so much a matter of course that they scarcely considered by what means they had been reproduced and were apt to look upon all as manufactured in one and the same manner. He gave a brief historical sketch of development in pictorial reproduction, saying that the earliest work of the kind in Europe was that of cutting pictures in wood together with the accompanying text. Photography had revolutionised the methods employed, the era of change dating from about 1866. Mr Waite gave an interesting description of various methods of preparing blocks for ordinary commercial use and for the finer classes of printing, using a series of lantern slides to illustrate his remarks. He also showed a number of process blocks in various stages of preparation, and also the block of one of the first wood-cuts made in Christchurch. He explained that it had been designed by a student of the Canterbury College School of Art and executed by one of Messrs Whitcombe and Tombs's employees, and lent by him. A vote of thanks was accorded Mr Waite at the close of the lecture.

... may be called the shop-

Before the Arts and Crafts Guild of the School of Art, Mr Edgar R. Waite, curator of Canterbury Museum, gave a lecture in the chemical laboratory lecture-room last night on "How to prepare drawings for reproduction." There was a large attendance, over which Mr W. S. Lovell-Smith presided. In introducing the lecturer, the Chairman said that they knew Mr Waite as a scientific man, but were now to know him as an artist. Mr Waite, in his introductory remarks, said that he had been an artist before he became a scientific man. He then gave a brief historical account of the art of reproducing illustrations from the first woodcut known, produced in 1423, to the most modern method. Referring to the substitution of hand engraving by modern photographic and other processes, Mr Waite said that what was to be deplored was the absence of the hand of the artist in the transcription of Nature. The lecture was illustrated by a number of limelight views explanatory of the lecturer's remarks, and by blocks and reproductions of illustrations. The lecturer expressed his indebtedness to "The Weekly Press," and to Messrs Whitcombe and Tombs, for these. Some of the views shown were of drawings of fish made by Mr Waite. At the conclusion the lecturer was accorded a unanimous vote of thanks.

23 Sat.

Sent to house an old "contraption" which I can turn into a small birds' aviary. Spent the afternoon upon it. To the Creswells in the evening.

24. Sun.

Worked at the cage in the morning & took Claude out in the afternoon with the Greenfinch and trap cage. Saw flocks of Yellowammers but neither Green- nor Goldfinches. Brauer called &

suggested a loan @
5%, having to meet
payments on property
he bought. He will
report later.

25. Mon.

Council meeting of
C. P. J. at 4. and
in the evening I
gave lecture before
Debating Club of
Y. M. C. A. "Heavy
Guns & Armour Plates
in Nature.

(Cuttings over).

1910
YOUNG MEN'S CHRISTIAN ASSOCIA-
TION, 8 p.m., MONDAY, July 25th,
1910, "HEAVY GUNS AND ARMOUR
PLATE IN NATURE" (Lantern Lecture), by
MR. EDGAR R. WAITE, F.L.S., Curator
Canterbury Museum. Ladies invited. Col-
lection. 1636

ARMOUR-PLATED ANIMALS.

STRANGE MEANS OF DEFENCE.

It was a pity there were so few people present at the Y.M.C.A. lecture hall last night when Mr Edgar R. Waite, F.L.S., delivered a most instructive and interesting natural history lecture entitled "Heavy Guns and Armour Plate in Nature." The lecture was profusely illustrated with lantern views which disclosed to the audience some marvellous looking productions of the animal world, many of which verged on the hideous, and many on the ridiculous. Mr Waite opened his remarks by stating that there was a constant struggle going on between those animals which devoured others and those liable to be devoured; hence many of the latter were granted certain forms of protection in the way of armour, etc. The fighting between animals was not unlike modern warfare. He traced the evolution of the armoured battleship, and then compared it to the armoured animal. There was the hedgehog, for instance. Its evolution was thousands of years old, and if its natural enemies, dogs and cats, were all to be wiped out of existence, it would be thousands of years before it would lose its means of defence. The hedgehog and other similarly protected animals would roll themselves into a ball when attacked, and be absolutely invulnerable. The shield of certain animals was their hair; for instance, caterpillars had hair protection. The hair tickled attacking birds, and put off their intended prey. They

all knew how weak a kitten's claws were and the little harm they could do, but when the animal grew older, the claws grew stronger, with somewhat painful results sometimes to the victim. Certain denizens of the deep possessed hair, for instance, whales, when young, and this led us to believe that they were descended from animals. There was also in the sea a worm strictly endowed with hairs, and from its hairy character it was often called the sea mouse. Feathers, possessed only by birds, were another means of protection, not only against the weather, but in other ways, as from scratches. There was one bird, the secretary, which, when preying upon snakes, stretched out its wing and tempted the reptile to strike it. After two or three futile blows the snake became exhausted and harmless, and the bird safely seized its prey. Armoured plated fish were not uncommon, and some of them when attacked retreated within their own skeletons; for example, the tortoise. Mr Waite then dealt with various flying animals which used their wings or skin as parachutes, and subsequently gave instances of animals like the stoat, which changed their coats with the season, and thus were almost invisible in their surroundings.

A snake's skin is much larger than the reptile itself, says Mr Edgar R. Waite. At his lecture last night he stated that the scales overlapped one another like the tiles of a house, and when the skin was taken off the snake and stretched out, it was considerably longer than one would suppose.

At last night there was no official

"Many people may have noticed two tawny spots above a sheepdog's eyes," remarked Mr Edgar R. Waite at his lecture last night. "They don't seem to be of much use, but it has been suggested that when the dog is asleep, an enemy of it seeing the spots thinks the spots are the dog's eyes, and presuming that the animal is awake refrains from attack."

A useful creature to have in one's backyard is the spur-winged channa, a bird that exists in South America. It has two spurs on each wing, and according to Mr Edgar R. Waite, at the Y.M.C.A. lecture hall last night, is not only inoffensive to human beings, but protects poultry against hawks and other rapacious birds.

The Canterbury Museum has almost an embarrassment of riches in the number of moa bones which have at various times been added to the treasures of the institution. Apart from the fine case of complete skeletons, it possesses hundreds of single bones of the extinct moa. In the past, exchanges with other museums have been made, moa bones being given for ornithological or other specimens which were not adequately represented in the museum. It seems that the field of possibilities in this respect has just about been exhausted, and it is now intended to issue a circular to other museums offering sets of moa bones at prices fixed by the Curator.

For the future the Christchurch Museum will be closed two mornings each week for cleaning purposes.

NORTH OTAGO DEER HERD.

Mr E. R. Waite, Curator of the Canterbury Museum, has just mounted and placed on view in the Museum a deer head, the horns of which are in the velvet. The Otago Acclimatisation Society during last deer-stalking season gave permission to the Museum authorities to secure from the North Otago herd heads showing the various stages of the growth of the horns. The permit was handed to Mr E. Hardcastle, who obtained the head on his last deer-stalking trip. The head is that of a sixteen-months-old deer, which is known as a "knobber." The velvet is a temporary continuation of the skin which covered the horns and projected over the blood vessels during the growth of the new horns. As a matter of fact, said Mr White, the horn itself grew from the skin, though it was attached to the skull. It belonged to the skin system, and not to the bone system, in the same way as one's finger nails belonged to the skin system. When the horn was fully grown what was known as burrs or coronets developed on the lower end and closed the blood vessels supplying the horn. The velvet then dried and was rubbed off against trees by the stag. Several instances of the fact that the horn grew from the skin had been found in Otago. There had been a complete severance by fracture of the pedicle, the projection of bone upon the skull on which the horn annually grew, but the horn on the broken pedicle had grown to the same extent as the one on the other side of the head which had grown under normal conditions.

26 Tues.

Sent 'Weekly Press' to Chadwick, it contains his photo of nest of Capercailzie.

27 Wed.

Finished aviary and installed the Greenfinch as the first occupant.

28 Thurs.

Attended lecture by Benham on Earthworms

29 Fri

Benham called upon me - wrote Sloman re Acclimatisation Soc^y matters. Haynes and his wife and Mai Creswell spent the evening with us -

30 ~~28~~ Sat

Haynes gave me a pair of canaries & said he would "do a deal with me" for them.

31 ~~29~~ Sun

Took Claude out to Starewood with trap cage - but succeeded only in bird-lining a couple of dogs.

Aug 1. Took Brauer to "the Hypocrites" Rose took Mae Creswell.

August.

1. Mon.

As Haynes had the offer of a second hand Westey Richards '22 rifle at 45/- I took it over. (see above).

2. Tues.

Commenced to make a breeding cage for the canaries. Beattie of Auckland called & gave me some photos taken on the Governor's trip. Musical Union Concert

3. Wed.

Attended meeting of C.P.I. Marshall on the Cook Is. sent Brauer £200

4 Thurs

Spright being absent
I acted as Secretary
to Early Colonists
meeting. worked at
the breeding cage.

5 Fri

Application from the
Kindergarten Assoc.
for lecture. "Heavy
Guns & Armour plates"

6. Sat.

Alucost finished the
cage. wrote Bollons
re his next Southern
trip took Rose and
Claude to pictures.

7. Sun.

Left with Claude at

6. 15. am picked up
Haynes & went to
Estuary at New Brighton
saw Bittern Golden
Plover. a Black Cat
upset the trap cage
& got away with the
lured traps - no
birds caught. We
reached home (cycles)
about 4.0.

8. Mon.

The Auckland paper
has mixed things.

Mr. T. W. Waite, curator of the Can-
terbury Museum, arrived in Auckland
yesterday, and is staying at the Central
Hotel.

Attended special meeting
of Council. C.P.I.
Evening at Crosswells.

The following appeared
on May 28th. but I
have only just received
the newspaper.

RATS--BROWN AND BLACK.

BY EDGAR R. WAITE, F.L.S., CURATOR
CANTERBURY MUSEUM.

THIS article is suggested by a paragraph which appeared in a recent issue. It is regarded as an unusual occurrence that a rat should make a nest in a tree, and the publication of the news in Auckland would indicate that the event is regarded as remarkable. If, however, the whole circumstances were known, I have no doubt that the occurrence was a quite natural, and, I might add, usual, one, for the surprise manifested is occasioned simply by want of knowledge on the subject.

It is not popularly known that there are two different kinds of rats to be met with in the neighbourhood of habitations, but not being identified as distinct their very different habits of life are not, of course, appreciated. Popular knowledge is derived from the brown, or sewer, rat. As rats go, this is a large animal, often measuring 17 inches in length, of which $7\frac{1}{2}$ inches is occupied by the tail; it has small ears, and is brown in colour above and greyish beneath. It is also sometimes called the

w.
tion
tw

Norway rat, from a belief that it was introduced from Scandinavia; but, as a fact, it was unknown in Norway at the time it made its first appearance in Britain. It was originally a southern or eastern species, and is supposed to be a native of the East Indies. It was first noticed in England and France about the middle of the eighteenth century; but, haunting ships in great numbers, it has now been introduced into all parts of the world. The brown rat is a great scavenger, and, in towns, particularly infests the premises of butchers and provision merchants and the adjacent sewers, where a plentiful supply of food can be obtained.

The black rat is a smaller animal, measuring 14 inches long, with a relatively longer tail, it being in fact more than half the total length. The ears are larger than in the brown rat, and the colour is black, sometimes wholly so; in other examples the belly is lighter, occasionally pure white. This animal is a much cleaner feeder than the brown rat, being more partial to fruit and grain, and it has been almost exterminated in many parts of Britain by the larger and more powerful species, so that it is sometimes spoken of as the old English black rat. It is, however, very common in many other places, particularly in the neighbourhood of sea-port towns. It is extremely plentiful in such places in both Australia and New Zealand, and I may say that all the rats which I have seen caught on the premises of the Canterbury Museum have proved to be black rats. Wherever both species occur in the same building the black rat occupies the upper portions, while the ground floor, cellarage, and sewers chiefly harbour the brown rat.

1 a

There is a rat in the neighbourhood of Sydney which, owing to its tree-loving habits, was accorded the scientific name of *Mus arboreicola*, and it was not until I sent specimens to England for direct comparison that it was proved to be the black rat. The fact that this animal had received such a distinctive name indicates that its proclivity for climbing trees was sufficiently well known. I had an experience with this rat which may be of some interest in connection with its habits. Shortly after taking possession of a new house at Mosman's Bay, Sydney, from which the builders had scarcely departed, our household was made well aware that a colony of rats had established themselves overhead. As they were evidently in considerable numbers, a six-way rat-trap was obtained, set, and baited in the orthodox manner with bacon and cheese. Seven weeks passed by, and none of the traps were sprung, although the nightly gambols in no way diminished. At the end of that period a single rat was caught, and on removing it from the trap it was found to be an example of *Mus arboreicola*. Having heard that this Sydney rat fed chiefly, if not exclusively, upon fruit, the traps were rebaited with bananas and peaches, and next morning there were three examples in the traps, and again on the following day three more. Afterwards they were caught in ones and twos, until they were either exterminated or scared from the dwelling.

On mentioning the circumstances to others I learned that it was quite usual for bush rats, as they were commonly called, to take possession of new houses, and one man, a builder, who had many opportunities of seeing these animals, told me that while the sewer rat is usually found on or near the ground, the bush rats invariably ascend into the upper regions. The reason that new houses are more frequently occupied by bush rats than older tenanted ones may be partly accounted for by the cat, which, commonly introduced with human inhabitants, speedily clears them away.

Of the rats obtained, a number were kept alive in a suitable cage, and became very tame. They were fed upon fruit, grapes, bananas, peaches, and apples, and would also eat bread and drink milk, but flesh foods were left untouched. I also sent some of the rats to the Zoological Gardens, in London, and all arrived well. A Sydney gentleman informed me that at his residence bush rats have, for several years, occupied the roof, and that they emerge at dusk, descend by means of the vines, and feed upon the seeds of various plants in the garden; they also ascend the highest native fig trees and feed upon the fruit. Another one was similarly troubled with these rats in his house, and only obtained some immunity on cutting down a large branch which the rats used to traverse in order to reach the roof. A friend described how these rats infest the peach, apple, and other orchard trees, and destroy large quantities of fruit. He has also repeatedly witnessed them seize and devour the singing locusts, and described the rats as frisking about the branches with great agility.

One other article of diet is still to be mentioned. Many of the Sydney suburban gardens are overrun with the common English snail, the same species which we know, though less abundantly, in Christchurch. During the cooler weather, when they congregate in thousands and hibernate beneath upturned flower-pots, old boxes, and similar retreats, the rats make speedy war upon them by biting off the apex of the shell and extracting the succulent mollusc. In the original notice of this rat the late Mr. Macleay described it as inhabiting the lofty gum trees at Elizabeth Bay, where it builds a nest among the branches with leaves and twigs, like that of a bird. The secretary of the Linnean Society of New South Wales described to me how he found a nest in the gardens. It was in a tree, and, taking it to be the work of a bird, he shook a supporting branch, whereupon a rat ran out. The curator of the Macleay Museum often found the nests of this rat high up in bamboos. The nests are usually larger than a football, and are not only used as nurseries, but also as permanent habitations. On one occasion he ousted nine full-grown rats from one nest, and several times four and five have been discovered occupying a common retreat. My informant also told me that the rats also gnaw holes in the bamboo stems and take up their abode in the chambers between the knots. He thinks that these shelters are formed during the wet season in order to escape the rains, and although he examined a considerable number, he never found the semblance of a nest within the cavity. It is thought by some that by this means the rats seek to escape from the native cats and other predaceous animals. The hole is always cut immediately below a knot, so that the chamber is entered from its upper part. These holes were never observed near the ground; they were generally 30 or more feet above it, and were frequently found when a bamboo was cut down.

9. Tues.

Took an excellent
negative of our new
Case of Launching Outlets
& sent it to Editor
"Weekly Press." Brauer
Came in the evening.

10. Wed.

Letter from J. P. Hill.
Received "Sea fishing
of England & Wales"
Aflalo, ordered from
Heffer & Sons 3/8,
which I paid.
Promised lecture (see
5th). Spent evening
at Creswells who are
leaving shortly for
Rotorua.

11. Thurs.

Letter with draft-
from Hornung. The
recent gale damaged
the roof of 'Headingley'
I wrote them and
sounded as to sale
of the properties. Took
Rose & Claude to the
Popular Lecture. Scott
on Battleships. Lent
my microscope to
Brauer.

12. Fri.

went with Haynes to
the mouth of the
Styx via Burwood &
had a long day. We
saw large flocks of
Oystercatchers, but
only succeeded in

Shooting one example
we returned via the
swamps wading often
knee deep, & regained
our cycles before
dark.

13. ~~20th~~ Sat

With Rose Claude &
Mae Creswell to the
pictures, including
Harry Lauder syn-
chronism between the
pictures & the voice.

14 Sun

Took Claude out for
the day. Plenty of
Pukeko on Horsehoe
Lake -

15 Mon

went with Brauer

to hear Careño on
the piano. Meeting
Library Comm. C. P. I.

16. Tues.

Meeting Committee of
Animals' Protection.

Took a good negative
of our new case of
Tues. (See cutting).
wrote report. Museum
Committee, discussed
subject of visit to
Southern Islands -
wrote Mr. Waite and
Wilfrid. Tyson called
& discussed perennial
question of a book
of N.Z. Economic fishes.

A work of considerable importance has been started under the direction of Mr Edgar R. Waite, curator of the Canterbury Museum. This is a series of exhibits in glass cases, the object of which is to depict the life history of New Zealand birds. Two cases have just been placed in the portion of the Museum devoted to recent acquisitions, and when a sufficient number of exhibits have been prepared, will ultimately be placed in the New Zealand gallery, to which they will form an attractive and valuable addition. One case contains two laughing owls which have been posed in natural surroundings, which make the exhibit much more interesting than the method hitherto adopted in the bird collections at the Museum. One of the owls has been in the Museum for a number of years, and prior to its decease it lived for eighteen or twenty years in the Acclimatisation Society's gardens. The other owl was recently obtained by Mr A. J. Wigley, and by him presented to the Museum. The second case contains a group of tuis, with nest and eggs. Both groups are in cases that are of glass all round. It is proposed to make a comprehensive exhibit of New Zealand birds on the lines above indicated, and the curator, who is to be congratulated on essaying such an important work, would be glad to have representative specimens of the birds of the Dominion, many of those at present in the collection at the Museum not being quite suitable for the purpose.

17. wed.

Museum Committee -
Went to pictures with
Brauer.

18 Thurs.

Sent £1. to Y. M.
Subscription for 1909,
1910, 1911 and 1912. The
following is the result
of my suggestion to
Sloman, the newspaper
has got hold of the
"Edgar R." - North
always used to thus
address me until I
began to call him
"Alfred John" when
he dropped it. The
Committee passed all
my recommendations
including £20 for

the average attendance 370.3.

The establishment of a library dealing with subjects in which anglers and sportsmen are interested has been decided upon by the Acclimatisation Society, and, subject to the consent of the Canterbury Philosophical Institute, the books and documents will, for the present, be kept in the Institute's library at the Museum. In connection with the collection of data relative to the habits of trout and other fish in New Zealand rivers, the Society last night set up a committee consisting of Drs. Davis, Morton Anderson, Moorhouse, Chilton, and Farr, and Messrs Sloman, Tisdall, Sutherland, Cotton and Edgar R. Waite, and the secretary was instructed to obtain a book in which the data collected is to be recorded.

New bird cases, and permission to go to the Southern Islands, and take Haynes. As a most disappointing offset I received a letter from Ballans the "Huicemoa" will not do the Southern trip again - the work will be taken up by

the "Amokura", the
training ship, and
there is absolutely no
accommodation for
outsiders !!! Saw the
Chairman who will
write a covering letter
to my application to
the Minister for
Marine which I
wrote & placed in the
Chairman's hands.

19 Fri

Spent evening at the
Creswells. Made a
gelatine mould of
"Tennison" as Brauer
wants a cast.

20 Sat

Sent letter to the
Minister (see 18th)

enclosing one from
the Chairman, also
photos of the Owl &
Tui groups -

21 Sun.

Spent day out with
rifle, got few birds.

22 Mon.

Sent Order to Weigel
for Bull. U. S. Fish
Comm. 3/-

23 Tues.

Received & corrected
proofs "Additions to
fish fauna of N. 2"

24 Wed.

Letter from Allan he
leaves on a collecting
tour in New Hebrides
Took Rose & Claude

to pictures Received
57. for photo of the
Laughing Owls - This
"Weekly Press"

25 Thurs

Sent drawings of the
Pterygotrieta & Hippocampus
to Editor, "Weekly Press"
with idea of using one
or the other for the
Xmas No. As Haynes
was ordering a new
bicycle from Bir'ham
I also ordered one
with the following
specification - went
to popular lecture
"Waiki Goldmine" by
W. Wilson, with Prancer

Specification. Gent's Roadster bicycle.

1. Frame B.S.A. 25 inches, top bar quite level.
2. Handle bars adjustable, ^{and reversible} shape of Letter B. in B.S.A. Handbook 1907 with plenty of length in stem.
3. Head with locking screw or other device, lamp bracket on Head.
4. Saddle, Brooks No. ^B90.
5. Wheels 28 inches, Westwood rims, Blumel's Mudguards.
6. Cranks 7 inches, Pedals rubber 4 inches wide.
7. Chain Reynold's roller $\frac{1}{2}$ inch pitch. ^{metal} Pit gear Case, Covered in
8. Gear 77 on high gear 59 on low gear.
9. Brakes Front rim brake, Back pedalling B.S.A. 2 speed gear
- 10 Tyres. Palmer non-skid, wired on $1\frac{1}{4}$ inch.
- 11 Accessories as usual including spoke spanner.
- 12 Finish. N.P. rims centres electric green, Frame black gold lined.

2 transfers B.S.A. and your own.

Note. Height of rider 5ft. 11 inches, sits quite upright, build frame to suit.

26. Fri.

The Canaries have
completed their nest.

27. Sat.

Rain and snow.

Commenced a digest
of the following
~~general~~ Species learning
name name. Genera
& species described by
me.

28. Sun.

Snow was lying an
inch deep on the
ground this morning.
Brauer called in the
afternoon.

29. Mon.

Canary laid first-
egg. Seedy to-day
did not attend C.P.D.

Council meeting -
30. Tues.

Group of the Tuis
appears in "Weekly
Press" to-day - Have
returned to fishes of
trawling Expedition now
up to Scombridae

31. Wed.

Sent Bank draft for
£24 . 0 . 0. for
bicycles as below:-

Haynes -	£ 7. 11. 6
Beale	7. 11. 6
Self.	8. 17. 0

Gave Pristed photo.
of Moreporks for
"Weekly Press"

September.

1. Thurs.

The fish I had regarded as Promethuchthys turns out to be different. The Minister for Marine declines to allow me to proceed to Southern Islands in Amokura?

3. Sat.

Put advert. in "Star" for Typewriter, as we want a second Machine.

4. Sun.

Replied to two ads for Motor cycles.

Brauer went for a ride with Claude & Self.

5. Mon.

Saw Chaurman who will write to Minister and explain that Haynes & I will be prepared to use hammocks & any other convenience which will render it possible for us to be accommodated. Arranged to go to Akaroa, with Haynes for Spotted Shags in nuptial plumage.

6. Tues.

Made preparation for the trip. ♀ Canary died.

7. Wed.

Left by 8.40 am train with Haynes.

As we passed along
the shores of Lake
Ellesmere we saw
hundreds of bodies
of Black Seals
washed ashore. At
Lake Forsyth, there
were crowds of Pukeko
and one Bittern also
many Ducks. Rabbit
Island has now no
animals on it and
excepting at high
tide is not an island.

At Little River we
changed to the coach
& had the 18 miles
drive to Akaroa -
Put up with Haynes's
friend Mr. Leuaghau

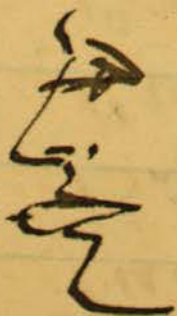
8. Thurs. Geo. Welch's
Engaged Geo. Welch's
launch & the champion
sculler ran us to
the heads. here
we had some royal
sport among the
spotted Shags, we
Secured 33, also
9 white fronted Terns
& Larus dominicanus
& 1 " Scopulinus.
I worked a rock pool
& got Bovichtus,
Tripterygion, and
Pseudolabrus. we
also set nets and
got Maki & Butterfish.
Took Blue cod on
line. Glorious weather.

9 Fri.

Went with Glynan
across the range to
Flea Bay & worked
the bush with the
walking stick gun
Glynan can call
the birds admirably.
Sometimes he used
a simply piece of
soft leaf on the
roof of the mouth
sometimes a whole
leaf folded & used
by drawing in the
air.

Shot the
following
birds with
the walking
stick gun.

rib of
leaf



2 Tuas

4 Bellbirds

2 creepers

1 Canary

1 Kowhai

1 Rifleman

1 Weka. and

2 Goldfinches

Obtained a pigeon

with the 12. bore.

The Canary is the
cream of the lot

& was the only one
seen. Sometimes

flyman " called " a
dozen or more Tuas

& Bellbirds into a
single Kowhai over
our heads & &

could have got
scores had I wanted.
Saw flocks of Chap-
fuickles, but they
were very wary. at
the top snow 7.
inches deep was
encountered. Returned
tired, after a long
day's tramp.

10. Sat.

Haynes has his
hands full skinning
our collections &
is working at the
sharf - I visited
Glynau's house, he
has a whaler's gun
which fires an
explosive dart: it

explodes 12 seconds
after leaving the
gun. Seedy to day

11. Sat

Remained in bed
sick, until noon &
then went out for
a spin in Wheeler's
launch with Wells
& the Minty family
whom I met. Saw
a fine Gannet &
returned with the
others to afternoon
tea -

12 Mon

Visited Vangioni who
has collections of
birds & eggs. he

promises to give me
eggs. He also has
live wekas & the
celebrated "Pompey"
the Yellow-headed
Penguin (
This bird was caught
some distance from
Akaroa and brought
there but refused
all food. At the
end of a week he
was liberated at
the heads, but next-
day turned up at
Vaughan's again &
has remained there
ever since. He will
not eat any food
given to him but

goes down the harbour
to fish for himself
he retires to the
same box & not
only allowed me
to stroke & rub his
body between my
hands but rapidly
flapped his wings
& beak in evident
enjoyment. His
eyes are stone color
& the pupil can
be contracted but
becomes irregular
in outline when
very small. As
Mr. Kenaghan took
a great fancy to

the W-stick gun I
let him have it
for £1. Sent tele-
grams to Rose and
Sheight. Packed up.

13. Tues.

Sent luggage at 8 am
& left at mid-day
arriving at 6.10.

14. Wed.

wrote report & sent
in to Committee
which met in the
afternoon recommend-
ing that an effort
be made to secure
the try pots at Island
Bay & Hikaraki.

P.C. from Welfrid re
Motor bike - Letter

from J Russell of
The Bluff who bought
my flute to say
that he had broken
it & asked about
obtaining another.

15. Thurs.

Brace came and I
gave him a lesson
in casting. Museum
Committee passed my
suggestion for obtaining
tripods & voted £7.

16. Fri.

Now commenced work
on Pleuronectidae of
trawling expedition.

17. Sat.

The "Akaroa Mail" is

evidently impressed
by the W-stick gun.

SPECIMENS FOR CANTERBURY MUSEUM.—Mr Edgar R. Waite, F.L.S. (Curator of the Canterbury Museum) and Mr E. J. Haynes (taxidermist), have been in Akaroa for a few days collecting some of the well-known birds of the district. They have mostly confined themselves to the pursuit of sea birds which frequent the harbour. The object of their visit is to obtain some specimens to fill the new series of cases which have just been inaugurated in the museum, and they report that their endeavours on the Peninsula have been very satisfactory. Mr Haynes was busy yesterday preparing the birds for transport to Christchurch. The weapon used for shooting the birds is in the shape of a walk-stick with a barrel inside, into which a cartridge is inserted. This allows those in pursuit to get closer to their quarry. They return to Christchurch this morning.

Bought a hen canary
to replace the one that
died. Put advt. in
the "Star" for type-
writer also motor
cycle for sale £14.

18 Sun.

Branen & Crosswell to
tea. Mr Crosswell is
ill at Summer.

19 Mon.

Now commenced on
the Pleuronectidae
wrote to Audenton
for specimens. Rose
& Claude visited Mr
Crosswell at Summer.
Edgar Stead presented
a Black Shag's nest
& eggs also promised
£5 for the case -
Took Rose Claude &
Crosswell to pictures -

20 Tues.

Paid insurance on

Woman houses $1\frac{3}{4}$.
Letter from Wilfrid.
he recommends a
Triumph Motor Cycle.

21 Wed.

Bought a Typewriter
No. 5 Remington as
a second one for
the Museum & use
of C. P. J. (Speight.).

Museum	2	10.	0
C. P. J.	3.	0.	0

£ 5. 10. 0

Creswell came in the
evening. I made
Cast of egg of Great
Auk from mould.

22 Thurs.

Took Rose & Claude
to "Aladdin" - 15/-

23 Fri.
wrote to Mr. Waite.

24 Sat
wrote to Ayson and
the Minister for
Marnie respecting the
publication of the
second part of the
trawling report. -
Cast 3 eggs of the
Great Auk. Creswell
came to dinner -

25 Sun.

Called on Creswell,
Brauer & the Allans,
the two former
came to mid-day
dinner, former to
tea also -

26. Mon.

Having sold some books for Crook, he asked me to accept his slate aquarium. - Paid insurance on effects "Matariki" £1. 12. 0.

27. Tues.

Obtained draft for £16. 10. 0 to send to Hornum being £12. 10. 0 painting etc + £4. repairs to roof damaged in the hurricane. Employed Chamberlain in the garden. 8/ - Handed in title of paper C. P. Inst. Additions

to Fish fauna No. 2.
will include Alexa
furcifera, Ammotretis
undipinnis possibly
a new genus & species
for the Common Lemon
Sole, which does not
seem to have been
described.

28. Wed.

The new canary laid
a first egg. Creswell
spent evening with
us, I commenced a
drawing of Pseudo-
rhombus plebeius.

29. Thurs.

Auderton sent some
flat fishes in re-

spouse to my request.
Gave lecture before
Knidergakten Assocⁿ
Canary again laid -
30. Fri.

A lecture, entitled "Heavy Guns v. Armour Plate in Nature," was given at St. Margaret's College last night by Mr E. R. Waite, Curator of the Canterbury Museum. The subject-matter of the lecturer's remarks was the defences of animals, which he dealt with under three headings—bodily, mimetic, and mental. An excellent selection of lantern slides were used to illustrate the account given of the warfare of the animal world.

Yesterday being the Festival of St. Peter

The Canary supplied
a third egg. Following
appears in the Press.

A BELATED DISTRIBUTION.

One Robert Arthington died at Leeds in 1900, and his estate accumulated while his will was disentangled, and it has only now been distributed. The sum of £466,000 was bequeathed to the Baptist Missionary Society, and £373,000 to the London Missionary Society. Twenty first cousins divide £111,000.

1. Sat. October.

Gave some notes re
foregoing to Drummond

AN ECCENTRIC MISER.

Chatting to a reporter this morning, Mr Edgar R. Waite recalled his impressions of "Bobby" Arthington, who was a well-known figure in Headingley, near Leeds. A cable message yesterday stated that Arthington's will had taken ten years to interpret. The sum of £466,000 was bequeathed to the Baptist Missionary Society and £373,000 to the London Missionary Society, while twenty cousins of the dead man divided £111,000.

Mr Waite said that the long time that had elapsed since Arthington's death in 1900 until the will had been disentangled was probably due to the old man's eccentricity. He was known as a miser far and wide in the district when Mr Waite lived at Headingley, and all sorts of stories were current about him. He was always dressed in the shabbiest clothes, and wore an old broad-brimmed high hat, very much battered. The house in which he lived was a large place, which he had built for a bride who jilted him at the last moment, and no one was ever known to visit it. All the windows and doors were barricaded, and how Arthington got his food even was a mystery. He evaded the payment of taxes for a long time by saying that the house was unfurnished, but on one occasion the collector got a ladder and took the boards away from a window. He discovered a chair and a table in one room, and the miser was forced to pay.

Arthington frequently visited the museum of which Mr Waite had charge, and asked questions on natural history, of which he seemed to know practically nothing. He told Mr Waite on one occasion that he had some water-beetles in a sink and would like to know about their habits. Mr Waite suggested that the miser should join a party of the Leeds Naturalist Club, which was going on an excursion next day. The distance travelled was about eight miles each way, and the return fare was under 1s. Arthington did not turn up, and on the following day he told Mr Waite that he had walked each way and saved the fare, thereby missing the party. He was never known to ride in a tram, and was exceptionally mean in every way. He attempted to pose as a philanthropist, and would offer large sums to institutions. There were always absurd conditions attached to the gifts, such as one that a home should find £1000 if he gave it a similar amount, and he was never known to actually give any of his money away. At the time Mr Waite last saw Arthington, in 1892, he was over seventy, but was hale and hearty, and was a very good walker.

Telegram from Hamilton
he has got another
fresh Trachypterus &
invited me to go to
Wellington & examine it

Claude left with his
friends (Andersons) to
spend week end at
Purau. I went with
Rose + Mae Cresswell
to theatre "Brixton
burglary". Commenced
drawing of Rhombos-
oleo reticularia ???

2. Sun.

Left at 5.30, alone
+ went to Dyers Pass
with Westley Richard
rifle. got 3 rabbits.
Brauer came to tea
+ afterwards Mae
Cresswell + Mr. Rule.

3. Mon.

Paid 9/- " for reprints
of "Additions to fish

fauna. (without covers).
Have put aside the
Pleuronectids until I
hear from Tyson. Now
at Leptoscopidae etc.
Gnathagnus a new re-
cord. Spent evening
with Creswells, who
have returned from
Summer.

4 Tues.
wrote to Allan giving
list of "additions" now
in hand.

Rexea furcifera.

Gnathagnus innotabilis.

Annotretis nudipinnis

3 *Pelotretis* sp. nov.

5. Wed.

Attended meeting C.P.I.
presented paper on [249]

Additions to fish fauna
No. 2.

6 Thurs.

Letter from the Minister
he refuses to publish
the trawling report -
Attended meeting of
Early Colonists' Committee

7. Fri

Crook delivered the
Aquarium, the weight
of which is out of
all proportion to its
size - Gave Haynes 2
models of the Great
Oaks' egg.

8. Sat

with Rose + Cresswell
to opening of the
United Tennis and

Bowling Club. Season.
Spent evening at the
Cresswell's.

9. Sun.

Ans^d Advert. for
"Trailer" Offered @
£4. Called on 3
invalids, Brauer, Row,
& Allan. found all
up. the first named
came to dinner.

10. Mon

Robt Hall sent a
list of Tasmanian
fishes (Johnston's) &
asked me to revise
it for use in his
Museum. Called
upon Ell re the
publication of the

trawling report, he will
see the Minister.

11. Tues.

Excepting the Pleuron-
-ectidae I have now
finished the M.S. of
the Nova Nueu fishes -
Sent specimen of
Neophrynichthys latus
to Gill, who has
written on the genus.

THE MUSEUM.

RECENT ACQUISITIONS.

The Canterbury Museum was enriched by the addition of a number of new exhibits last week, some of them of more than ordinary interest. Mr A. R. Bloxam presented an excellent collection of New Zealand mosses and seaweeds, and also a wax imprint of the seal of the New Zealand Exhibition, held in Dunedin in 1865. Mr Angus Cameron, of Scargill, donated a merino

wether for use in the series of studies representing the life history of the kea, which will shortly be put in hand. Among the recent birds acquired for the New Zealand collection are the spotted shag (in breeding plumage), South Island robins, bush canary, bellbirds, oyster catchers, and black shag. These were obtained by the curator and taxidermist during a recent visit to Akaroa. Mr Edgar F. Stead donated a harrier, and Mr J. Glynnan a bush pigeon. Mr W. W. Smith, now of New Plymouth, presented a morepork and pair of pectoral rails.

A peculiar four-barrelled revolver, made in 1859, shows an unfamiliar stage in the evolution of the weapon of the present day. The four barrels are immovable, but the striker revolves as the trigger is drawn back, and adjusts itself to fall on each of the cartridges in succession. It is an ingenious idea, and the mechanism works remarkably well. The weapon is a small one, and very neatly made. Another acquisition has quite a touch of the Old Country about it. No doubt it will be recognised as a familiar object by many old people. It is a small wooden communion tray, used in connection with the cutting up of communion cake. The cake would be placed on the board, and then cut into small cubes. To secure accuracy, each side of the tray is marked with thin slits, which allow the parallel passage of the knife. The board has, in its carving, quite a religious tone. Another interesting acquisition was presented by Messrs Badger Bros., who have given a medal of the Zoological Society, London, struck in 1826 from designs by Landseer, and engraved by B. Wyon, the engraver for the Mint.

Referring to foregoing
Ell, who is bird-
protection "mad"
telegraphed to know
if it were true I
had been collecting
on Bank's Peninsula
& asking for number
of each bird taken.
After seeing my
chairman I sent
wire giving names
& number merely -

12. Wed.

Labour Day. Public
holiday. ✓ wrote
to Mrs. Waite, it
being her birthday.
(32 Langdale Terrace),
at Museum, but in

afternoon popped in
to see the Ch. College
shorts. Finished drawing
of Rhombozolea

13 Thurs.

Named Lemon Sole
Pelotretis flavilatis. it
does not seem to have
been described. wrote
epitome of new species
etc. for Proc. N. Z. Inst.
gave Brauer one of
the casts I recently
made.

14 Fri

Finished drawing of
Rhombozolea plebeia.
Brauer invited me
to Musical Union
Concert on Tuesday.

15 Sat.

Telegram from Ayson.
he will see me on
Wed. A walk in the
afternoon.

16. Sun.

Up at 4.30. Took
Claude to Dyer's Pass
I got one rabbit with
the rifle - Claude
taking nearly all the
shots, he has not
yet succeeded in
getting a rabbit.

17. Mon.

wrote report for the
Museum Committee.
broached subject of
a Memorial to Hutton.
Sent some reproductions

of fish drawings to
Ell. I had replied
to an Adv. - Lathe
wanted & advertiser
called to see it in.
I have now got two
species of Ammodontis
(guntheri & indipinuis)
on the drawing Board.

18. Tues.

Though still sitting
the canary has failed
to hatch the eggs -
Went with Brauer to
Musical Union concert.

19. Wed

Ayson failed to turn
up, as intimated in
his telegram. Attended
meeting C. P. J. and
moved resolution -

At the meeting of the Philosophical Institute last evening, there was some considerable discussion of Sir William Steward's Native Birds Protection Bill, which has been introduced in the House. The subject had been given frequent consideration by the Institute during the past two years, and there had been various exchanges of opinion with other Institutes and the Acclimatisation Society. It was explained that Sir William Steward's Bill provided for the protection of all birds indigenous to New Zealand, or which periodically visited New Zealand. Provision was made for excepting certain birds, by Order-in-Council, from the benefit of the protection proposed. Mr E. R. Waite moved:—"That this meeting heartily approves of the Bill introduced by Sir W. J. Steward, protecting birds indigenous to New Zealand, and hopes that it will be accepted during the present session of Parliament." This was seconded by Dr. Chilton. A fear was expressed that the Bill would not secure the protection of black and white swans, but it was pointed out that these were protected under the Game Acts. Dr. Moorhouse said that the Institute would have the cordial support of the Acclimatisation Society, which would probably send forward such a resolution as that passed by the Institute.

20 Thurs.

Ayson called and
I told him of the

Minister's refusal to
publish travelling report,
he will see Thomson.
I took photos. of the
two Rhombosoles, so
far drawn. Also of
the Kingfisher group.
just completed. Chilton
handed me article
on Crustacea. Letter
from Allan, he says
that my Gnathagnus
is innotabilis, but that
the Kathetostoma is
not laevis. Replying
to an Advt. for small
lathe I sold mine to
a young fellow, from
Leeds for £5, the
sum I paid Williams.

21. Fri.

Letter from Ell re
Trawling Report and
Protection of birds - I
replied. Printed from
3 negatives taken yes-
terday & sent prints
of the fishes to Ayson.
Attended meeting of
Council C. P. J.
12 bore gun. "Bonehill."
Birmingham, £3.

22 Sat.

Made colour drawing
of Nettion formosum
for Staines from a
pair of birds he had
had sent from England.

23. Sun

Rose at 4:15 & took

He ran gun up the
Hills to Dyers Pass.
Returned at 11.0 with
rabbits. Brauer came
to dinner & we spent
evening with Bridges.

24 Mon.

Described Kathetostoma
Brauer called in the
evening & took the
casting of "Tennyson".

25 Tues

Hamilton wired he had
a Centrophorus
which he would send
for examination if I
wished - I referred him
to C. plunketi. and
would examine specimen
if he wished.

26 Thurs Wed.

Turned the canary
off the infertile eggs
Letter from Tyson.
his wife has developed
cancer. Hamilton
sent the Shark, it is
Sqymnorhynchus licha

An exhibit representing kingfishers in their natural habitat has been completed, and is now on view at the Christchurch Museum. The specimen is another of the "Life History of New Zealand Birds" series, and depicts a sand bank, with a tunnel made by the parent bird, whose head is thrust outside the opening. Another parent bird is seen feeding its young with a small trout. The sandhill has been cut in half, and from the other side one can look into the tunnel and see the eggs of the bird deposited inside. The whole representation is very realistic and artistic, and reflects the utmost credit on Mr E. J. Haynes, the Museum taxidermist. Mr Edgar R. Waite, the Curator, intends as time goes on to make a complete collection of New Zealand birds in their native haunts, and then to remove the exhibits to the New Zealand room, which will be reorganised and rearranged.

28 Thurs.

Spent evening at the
Cresswells, in conse-
quence of Mr C's
precarious condition
they have abandoned
thought of the Rotoma
trip. I'll write a
further letter which
I will show to Adams.
The Board approved
of my scheme re the
N-2 birds, but I'll,
as a private member,
appear to want to
bounce me. Called
on Macmillan Brown
& Farr. Brought away
the latter's typewriter
which he has lent

CANTERBURY MUSEUM.

(SPECIAL TO "THE PRESS.")

WELLINGTON, October 26.

In the House of Representatives this afternoon Mr G. W. Russell asked the Prime Minister whether he will introduce an amendment in the Reserves and Other Land Sales Disposal and Enabling and Public Bodies Empowering Act. transferring the land upon which the Canterbury Museum stands, from the Christchurch Domains Board to the Board of Governors of Canterbury College, in which body the building and all exhibits in the Museum are vested.

Sir Joseph Ward replied:—The Board of Governors for Canterbury College originally proposed to introduce a local Bill dealing with this matter, and full information was supplied to them for the purpose. An application has just been received from the Board, asking that the matter may be dealt with as stated by the hon. member, and it will receive the careful and prompt attention of the Government.

to me while he is
in England -

28. Fri

Went with Brauer to see Nellie Stewart in "When Knighthood was in flower" Saw Adams re Ellis letters Dr. Wilson of Antarctic Exped. called to see me. Took photo's of Claude in his Cadet uniform.

29. Sat.

Attended reception at Council Chambers to Capt. Scott & member of Terra Nova Exp. a photograph was afterwards taken of those present. Went to Cinematograph

30 Sun.

For a ride with Brauer
who returned with me
to dinner. All went
to Prices stayed tea
& the evening.

31. Mon.

Saw fish on Saturday
& supplied this note:—

There is now on view at the Commercial Restaurant a remarkable fish. Speculation was rife as to the name of the fish, it having been variously called an overgrown mackerel, a bonito, etc. It was examined on Saturday by Mr Edgar R. Waite, curator of the Museum, who pronounced it to be a very rare fish indeed, of which probably not more than two specimens are known, one of which is represented by a skeleton now in the Museum. The name of the fish is *Lepidothynnus huttoni*, such having been bestowed in honour of the late Captain F. W. Hutton, F.R.S., formerly curator of the Museum. Mr Waite stated that being so rare, the fish does not possess a common name. It is understood that the specimen will be presented to the Museum.

The Canary commenced
to lay her second batch.
Dr. Wilson spent the
day at the Museum
making up albatross
skins.

THE MUSEUM SITE.

Most people, we imagine, will support the action of the Domain Board in protesting against the attempt of the Board of Governors of Canterbury College to secure possession of that portion of the Domain occupied by the Museum. The College Board, some time ago, invited the Domain Board to agree to the transference of this land, but the Domain Board, for reasons which should appeal to everyone, declined to consider the proposal. The College authorities, however, are now asking Parliament to give them the site. The Museum block is as much a part of the Hagley Park reserve as any portion of the parks or gardens. At the time when the Museum was erected it was under the control of the Provincial Government, who, naturally, did not foresee the difficulty that might arise when the Museum building was transferred to Canterbury College, and the Domain, passing into the hands of the general Government, was administered by another body. The division of authority, however, leaves the Domain Board still the controlling body of the Museum site, and though the desire of the College Board to have it transferred to them is quite intelligible, there is a much better reason for its retention by the Domain Board. Mr Beswick, in his letter to the Canter-

bury members, pointed out that once the land were vested in Canterbury College, although restrictions were imposed as to its alienation, these restrictions might at some future time be removed. The Museum might, as he said, be destroyed by fire, in which case the Canterbury College authorities might consider that some other site would be better for the Museum, and that the present site could be more advantageously used for other purposes connected with Canterbury College. It is also possible that some future College Board might decide to erect on the site buildings which, however useful they might be, would be no ornament to the public gardens. At present, we presume, the Domain Board would have some say as to the character of any new buildings that the College Board might wish to erect alongside the Museum. But the best reason of all for the maintenance of the "status quo" is that the site is public property. To allow it to pass into other hands would be a dangerous precedent, and we are glad to see the Domain Board have taken up the attitude that to alienate this land would be opposed to the public weal. Mr Beswick's presentation of the case should convince the Minister and the members to whom it is addressed that matters should be left as they are.

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