





Book No 76.

1927.

April 1st.

To

Edgar A. Waite.





APRIL.				
Sunday	....	-	3	10 17 24
Monday	....	-	4	11 18 25
Tuesday	....	-	5	12 19 26
Wednesday	....	-	6	13 20 27
Thursday	....	-	7	14 21 28
Friday	.....	1	8	15 22 29
Saturday	..	2	9	16 23 30

April.

1. Fri.

Attended Finance Comm. &  
Zoological Soc.

3. Sun.

Coles called for me in  
his Chevrolet at 7. am &  
with Nettlebeck & Bluet  
drove to Wannum; did  
some fishing and saw  
a lot of birds on the  
northern Swamps Egret,  
Pelican ibis, heron,  
grebe, duck, coot etc.  
we returned via Millbrook  
reaching home 8. pm.

4 Mon.

Called a meeting of the  
Museum staff respecting  
the popularizing of the



Museum by press articles -  
Noticed that Ed. Davies  
a Board member had  
died. Attended meeting  
of Hute Club at night.

5. Tues.

Further notes received  
from Bishop of Dunbury  
re Santa Cruz. Attended  
burial of ashes (cremated)  
of Ed. Davies. Made my  
first visit to Minchin's  
Snake Park. Hellowell  
rendered  $\frac{4}{10}$  for repairs  
to Headingley showing  
a debit balance of  
£49. 16. 4, which sum  
I sent to him.



6. Wed.

Museum Committee when  
I presented 8 papers for  
the "Records" estimated  
at under £120.

7. Thurs.

Repairs to "Headingley"  
cost over £55. It is now  
let to Williamson @ 53/-

8 Fri.

Attended Radio exhibition  
& had a look at the B.  
battery eliminator

9. Sat.

Letter from Watson again  
in London. He proposes  
to return in Feb & March.  
1928!!

10. Sun.



My name, it is Sam Hall, I'm a thief,  
My name, it is Sam Hall,  
And I've robbed both great and small,  
And my greeting is to all,  
D—— your eyes!

They've shut me up in quod, up in quod,  
They've shut me up in quod, up in quod,  
They've shut me up in quod  
For killing of a sod,  
They have, so help me God,  
D—— their eyes!

The parson he will come, he will come;  
The parson he will come, he will come;  
The parson he will come,  
And he'll look so b—— glum,  
And he'll talk of Kingdom Come,  
D—— his eyes!

The sheriff he'll come, too, he'll come,  
too,  
The sheriff he'll come, too, he'll come,  
too,  
The sheriff he'll come, too,  
With all his ghastly crew,  
Their bloody work to do,  
D—— their eyes!

Then, as up the drop I go, up I go,  
Then, as up the drop I go, up I go,  
Then as up the drop I go,  
The swine down there below,  
Will say, "I told you so!"  
D—— their eyes!

And now I'm going to hell, going to  
hell,  
And now I'm going to hell, going to  
hell,  
And now I'm going to hell,  
But what a b—— sell  
If you all go there as well!  
D—— your eyes!



11. Mon.

Received Burrells "Platypus"  
a present from Angus &  
Robertson, also from them  
I have Tillyard's "Insects"  
& the "Ency. of Australia".

12. Tues.

Replied to Walson Sent  
him my article containing  
Lepidothynnus, he having  
referred to Chenogaster,  
Sent him a copy of the  
above "epic". Also wrote  
to F. Cahille whom A. W.  
mentions in his letter -  
Bought pair of new high  
tension cells for wireless  
set. 18/6 each. Inquired  
about B. battery eliminator  
£9. 15. 0 -



13 Wed

Rose birthday. gave her  
£2. & sent £2 to Claude  
for his birthday tomorrow  
Received invitation Rose  
& self - May 4<sup>th</sup> confer-  
ring degree on the Duke.  
Connie telephoned from  
Melbourne - Claude had  
sailed for Brisbane in  
a new charge "Canberra".  
Acknowledged the "Platypus"  
(see 11<sup>th</sup>) remembering that  
one's remarks might be  
quoted -

14 Thurs

Letter from Katie Bird to  
say that her sister Ivy  
was passing through Adél.  
on her way to England



Sent a wire to latter  
on board Esperance Bay.  
Attended meeting Royal  
Soc. when Mason pro-  
posed me as President. I  
declined Harvey Johnstone  
was elected representative  
on Public Library Board.

15 Good Friday-

Ivy Ra Trobe telephoned,  
came to tea & remained  
overnight. We plied her  
with grapes & commodities  
for the voyage.

16 Sat.

Made a hinged table  
for the typewriter & wrote  
something on the hand-  
book on Reptiles and  
Amphibians.



17 Easter Sun.

Made a copy holder for use with typewriter & in afternoon took Rose to the Snake park & the Zoo.

18 Mon.

Holiday. Burnt up much rubbish including 2 or 3 years accumulation of vine cuttings etc & then had a run on the motor.

19. Tues.

Reading W.S. Hales' crustacea for the Handbook.

20. Wed.

Concluded above and sent to printers.

21. Thurs.

Meeting Fauna and Flora Board. At night I wrote



\* delivered a short article  
to newspapers. Wrote to  
Mrs Bird & sent her prints  
of photos. taken of Rose &  
Ivy.

22. Fri.

Newspapers abbreviated my  
article (see over.)

23. Sat.

Awaiting news of damage  
to "Headingley" as result  
of the recent storm.

24. Sun.

Mrs Cowan to dinner &  
tea also Mrs Buregoyne

25. Mon.

Auzac day. Holiday.  
Spent all day repairing  
fence Mrs Robin supplied  
used iron, a good job.



26 Tues.

Sent M.S. and illustrations  
of 8 papers for Museum  
- Records. Letter from  
Claude, now in Sydney,  
awaiting new appointment  
Visited Dr. Ray professionally  
Attended meeting of the  
Anthropological Soc. and  
voted for affiliation with  
the University as against  
the Royal Soc. Carried -

27. Wed.

Special meeting of Fauna  
Board to consider trap-  
ping of Possums on the  
Chase.

28. Thurs.

Council meeting of the  
Roy. Soc. Ward is to



## FLINDERS CHASE.

The board which controls the Flinders Chase, at the western end of Kangaroo Island, is a very active body, and not only holds frequent meetings in Adelaide, but sends representatives two or three times a year to make personal inspection of the chase. The Flora and Fauna Board was set up to see that the chase was preserved for all time as a sanctuary for native animal and vegetable life, and not only to preserve such life as is indigenous to the island, but to introduce thereto such other species as may be in danger of extermination on the mainland. An example of the necessity to plant special trees for the benefit of vegetable feeding animals was recently encountered. Native bears obtained in Victoria were introduced into the chase, but were first placed in an observation enclosure thereon, where much experimenting was necessary to ascertain what particular kind of local foliage would be acceptable. The ranger had a busy time, masses of different kinds of leaves being refused, until at length suitable food was found. The particular kind of tree selected by the animals is not very plentiful on the chase, and further planting may have to be undertaken. A pair or two of the magnificent Tasmanian black opossum have been introduced, and as they, or their hoped-for progeny, cannot be expected to confine their peregrinations to the limits of the chase, trappers on the island are earnestly asked to liberate any such specimens as may spring their traps, and the same may be said of other fauna which is not indigenous to the island, and therefore have been, presumably, introduced by the board. Young emus have been liberated on the chase, and it was particularly unfortunate that



one was killed when crossing the track. The board appreciates the action of a number of residents of Adelaide who have become annual subscribers to the chase; it is hoped that this number may be increased so that not only may many needed improvements be carried out but that funds may be sufficient to purchase and transport to the island specimens of animal life which it is deemed advisable to acclimatise there. Station proprietors and others who can supply rare fauna will do excellent service by obtaining and donating such to the board. The present members of the board are—Dr. E. Angus Johnson (chairman), Professor T. G. B. Osborn, Drs. A. M. Morgan and R. H. Pulleine, and Messrs. J. C. Marshall and Edgar R. Waite.



nominate me. at next  
General meeting as Vice  
President. Letter from  
Hellowell reporting the  
damage done to "Headingley"  
by the recent cyclone &  
sending first rent from  
new tenants. Wrote note  
on mandrakes for the  
newspapers.

29. Fri.

Newspapers printed my  
note (see over). Letter  
from Claude, he is now  
back in Melbourne (see  
26<sup>th</sup>). Attended meeting  
of Advisory Committee on  
Export of Fauna.

30 Sat. Holiday. Saw Duke  
& Duchesses of York.







### THE MANDRAKE.

Though all have heard of the mandrake, which "shrieks when touched," it is safe to say that few people in Australia have seen one. A "pair" may be now inspected at the Museum, by the kindness of Miss Eva Saunders, who obtained them from the Holy Land. Mandrakes, botanically known as *Mandragora officinarum*, are plants allied to the potato and belladonna, and the flesh-colored roots often take curious shapes, some of which bear a resemblance to the human form. It is this fancied similarity that fired the imagination of the ancients, who endowed the roots with the most marvellous properties. Like belladonna, mandragora is a poison and produces insensibility, hence was used before surgical operations. The belief in its magical properties is, however, beyond all understanding. "He who desires to possess a mandrake must stop his ears with wax so that he may not hear the deathly yells which the plant utters as it is being dragged from the earth." It was suggested that this necessity might be avoided by tying the mandrake to a dog's tail, retiring to a safe distance, and then enticing the dog with a piece of meat. "The dog will then run at the food, drag out the mandrake root, and fall dead, killed by the horrible yell of the plant." We read in Shakespeare:—"And shrieks like mandrakes torn out of the earth, That living mortals, hearing them, run mad." They are also mentioned in the Bible (Genesis xxx., 14-16). Some accounts state that they dripped human blood when torn out of the ground, that they were diminutive human beings, and that a certain place to find them was beneath the gallows where a murderer had been hung. The literature of the mandrake is fairly extensive, but the above will suffice to draw attention to the specimens exhibited.

S.R.W.







MAY.				
Sunday ....	1	8	15	22
Monday ....	2	9	16	23
Tuesday ....	3	10	17	24
Wednesday ..	4	11	18	25
Thursday ..	5	12	19	26
Friday ....	6	13	20	27
Saturday ..	7	14	21	28

May.

1. Sun.

Misses Duncan and Mrs Cowan to dinner & tea. Developed a bad throat at night.

2. Mon.

At home, ill, missed the Flute Club.

3. Tues.

Still in bed letter from Tillyard re non-ack<sup>d</sup> of copy of his "Insects" sent to the Museum. Wrote the balance of report for the Museum Committee Rose sent for Dr. Rex Plummer a medical certificate being required after 2 day's absence.



4. Wed.

Plummer gave me certif.  
to end of week. Missed  
Museum Committee and  
also conference of degree  
on the Duke at University.

5. Thurs

Birthday in bed. Rose  
cancelled tickets we had  
taken for "Yeomen of the  
Guard".

6 Fri.

Got in for an hour in  
the sunshine. Wrote at  
the Reptile Handbook.

7 Sat

Took Rose to Geisler's an  
excursion of the Aquarium  
Society. News of a whale  
stranded - Hallett's Cove.



8. Sun.

Osborne rang me up about the whale & called for me in his "Fiat" at 2.30. The specimen proved to be a young Balaenoptera musculus (see ).

9. Mon.

Returned to work - was interviewed by "Advertiser" re the whale. (see. ).

Mrs J.W. Mellor called to see me re her husband who was worth £250,000 a short while ago & is now penniless. She wanted to get him a job in the Museum as taxidermist to fill vacancy created by death of Otto Ran -



10. Tues.

### THE STRANDED WHALE.

The Director of the Museum (Mr. Edgar R. Waite) has identified the whale that became stranded at Hallett's Cove recently as a baby blue whale. On Monday Mr. Waite said he went to Hallett's Cove the previous day. Hundreds of cars travelled to the Cove, where a large number of people congregated on the shore round the whale, it being impossible to see the carcass from the crest of the hill because of the crowd. A police constable from Brighton was in charge. After inspecting the character of the blowhole, the arrangement of the fins, and the nature of the whalebone, he came to the conclusion that it was a baby blue whale. It was about 27 feet in length, and its mother might have been 80 ft. or more. Considerable damage had been done to the specimen. The baleen, or whalebone, had been cut out; some of the fins had been hacked to pieces, and initials and names had been carved upon the surface of the carcass. As the Museum authorities possessed a skeleton of a small blue whale of similar size, and as the mutilations rendered the specimen manifestly imperfect, Mr. Waite decided that no further steps should be taken officially. The claimant of the carcass, who was present, asked Mr. Waite whether there was any possibility of obtaining oil from it, but the latter pointed out that there was only a small amount of blubber, that there would be difficulty in obtaining it; and that there was an absence of the necessary utensils to treat it. On it being suggested that the health authorities might demand the removal of the carcass, the claimant said a charge of dynamite would probably end that difficulty.

CONFERENCE OF DAIRY

Did not attend Aquar. Soc.



11. Wed.

Meeting of Handbooks Comm.  
when I submitted report  
as Hon. Editor.

12 Thurs

Meeting of Royal Soc. S.A.  
when I was elected a  
Vice President.

13. Fri.

Attended Finance Committee  
Zoological Society. The  
following is from "Advertiser".

Mr. Edgar R. Waite, director of the Museum, was elected vice-president of the Royal Society last night. In nominating him, Dr. L. K. Ward said Mr. Waite would, in the ordinary course of events be the next president of the society, and in selecting a nominee the council had considered the part taken in the work of the society, service in the scientific life of the community, and the part that would be played at a later date as the spokesman of the society. Mr. Waite was elected unopposed.



## THE ROYAL SOCIETY.

Professor T. G. B. Osborn presided at a meeting of the Royal Society last night, when Mr. Edgar R. Waite was elected junior vice-president. The election was made necessary by the elevation of Professor Osborn to the presidency on the retirement of Professor Wood Jones. A vacancy on the council will be filled at the next meeting. The following were elected fellows of the society:—Dr. Harold Davies and Messrs. E. W. Holden, C. J. Hackett, P. B. Paltridge, L. N. Birks, and T. M. A. Boys. The following nominations for fellowship were received:—Messrs. H. Woodlands and R. F. Kemp. Exhibits were tabled by Professor Howchin, Sir Douglas Mawson, and Mr. Madigan (minerals), Miss Macklin and Dr. Cleland (plants), Messrs. Lee and Elston (insects), and Dr. Campbell (map and photograph). The exhibits were described by those who presented them and discussed by members.

14 Sat.

Letter from Wilfrid. He mentioned that Laura Smithson now playing in Adelaide, would call on me. I wrote to her. Theatre Royal.



16. Mon.

Letter from Kilburn Scott:  
acknowledging my letter  
announcing despatch of  
my scientific papers.

Received complete galley  
proofs of Stiles Handbook  
on Crustacea. Attended  
practice of Flute Club.

17. Tues.

Received proofs of papers  
for Museum Records. Vol.  
III. No 3.

18. Wed.

Gave lecture on trawling  
at Wandale - Payneham.  
Rose going with me.

Found following Hand-  
bill in the hall -



... Free ...

# Lantern Lecture

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## Deep Sea Trawling

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BY

—Mr. E. R. Waite—

Curator of Adelaide Museum who has secured unique  
pictures of marine life

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Wednesday, 18th May, 8 p.m.

at

Evandale Congregational Church Hall,  
Luhrs Road, Payneham South

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Interest for all - - - - - Items

Arranged by Evandale Young Men's Club



# Snake Park Tragedy

## Curator French Receives Fatal Bite

### ENGAGED IN DEMONSTRATING TO CHILDREN

Bitten by a venomous black tiger snake on the forearm Mr. C. J. French (curator of the Snake Park) was admitted to Adelaide Hospital last night and died shortly before midday today.

A special demonstration for children was advertised for yesterday afternoon, and a large number of women and children visited the park. Most of them were gathered round the demonstrating cage when Mr. French thrust his left hand into a glass case to remove a reptile.

As he did so the tiger snake sprang and fastened its fangs into the arm of Mr. French between the wrist and elbow. He shook it off and tied two ligatures above the bite.

At the same time Mr. French told the awed crowd that there was little to fear when such treatment was applied promptly. Later he felt faint and went home, but subsequently returned to the park. During the night alarming symptoms developed and he was taken to Adelaide Hospital, where he died.

When Mr. French was admitted to the hospital the signs of the poison were apparent in his system. According to the authorities he was unable to speak and could only point to the spot where he had been bitten.

Owing to the unfortunate death of Mr. French the Snake Park was closed today and will remain so until Monday.

It is understood that there are 12 tiger snakes among the specimens. Mr. French has been bitten only twice at the Snake Park by venomous reptiles, but on six occasions by non-poisonous specimens.

### DECEASED TOOK RISKS

Mr. Keith Minchin (director of Snake Park) when seen this afternoon was deeply upset at the death of Mr. French. He characterised him as "a wonderful chap." The only complaint that he had against him was that he continued to take risks which he had been told not to.

Not long ago Mr. Minchin said that he heard from an Adelaide doctor that Mr. French had arranged to take a venomous snake to him and permit himself to be bitten. He desired to demonstrate to the doctor the signs and symptoms of snake bite and to show that he himself was immune. Mr. Minchin said that he found out in time to prevent him from undertaking this experiment.

"It is my opinion," said Mr. Minchin, "that when he was bitten yesterday he wished to show that he was immune and took the opportunity to demonstrate his

Mr. Minchin pointed out that Mr. French had never cut the wound or applied permanganate of potash. He had said that he was immune to certain venomous African snakes, and apparently his ambition was to become immune to certain Australian species.

Mr. French had an extraordinary power over the public at his demonstrations, and was held in great affection by all children.

### CAME FROM SOUTH AFRICA

Mr. French, who was born in South Africa of British parents, was an assistant master at St. George's Grammar School, Capetown, for about 17 years prior to coming to Adelaide. He gave lectures on reptiles at Capetown University, and made snakes his hobby for upward of 30 years. He wrote a book on the subject. This was circulated among the schools.

He arrived in Adelaide by the Medic on Tuesday, January 11, to take up his position of curator at the Snake Park, which was founded by Mr. Keith Minchin, who had seen a similar institution at Capetown. He brought with him a number of rare specimens, including puff adders, cobras, herald snakes, mother of pearl snakes, ringhals, and berg snakes.

At the time of his arrival Mr. French explained that in catching a snake he waited for it to raise its head. He grasped it quickly with the left hand, and then secured a grip lower down on the body with the right to prevent it from wriggling. He used the left hand to grasp, because if bitten it was not as dangerous as the right.



20 Fri.

Board meeting - Question of Superannuation under consideration -

21 Sat

Letter from Claude - once again in Sydney.

22 Sun.

A terrific visitation of dust, scarcely moving but covering everything like a pall.

23 Mon.

Letter from Mrs Waite.

24 Tues.

Sent £2.2.0 to R.A.O.U.

2 years subscription 1927 (and 1928 - in advance)

Sent 3/- to Council for an incinerator. Commenced



clean typing of reptile  
Handbook as far as compiled.

25. Wed.

Saw Miss Smithson. (who  
has played in "Ghosts"  
+ to whom Wilfrid sent a  
letter of introduction) off  
by Melbourne express -

26 Thurs.

Council meeting of Roy.  
Soc. I presided.

27 Fri.

Keith Munichin has not  
been long (see cutting).  
in obtaining a successor  
to French (see 20<sup>th</sup>). Re-  
plied to letter from Mel-  
lowell re damage to +  
cost of renovations to  
"Headingley."



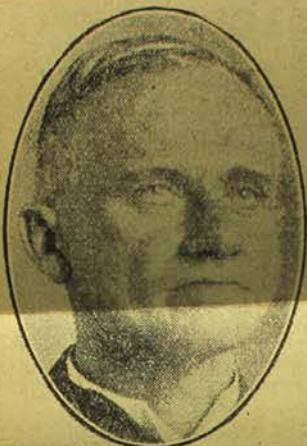
Mr. Heuzenroeder Appointed

TWICE NEAR DEATH

From boyhood Mr. Herbert H. Heuzenroeder, who has been appointed curator of the Snake Park, in succession to the late Mr. C. J. French, has been fond of snakes. He recalls, with a smile, many punishments for bringing reptiles to his home.

Nowaday he allows several of the venomous creatures to roam loose round his house. They find comfortable sleeping quarters on window-sills, cushions, or pieces of furniture, and, he remarked, "they keep down the mice."

Mr. Heuzenroeder was born at Tannunda on October 13, 42 years ago. His father, the late Mr. T. F. Heuzen-



MR. H. H. HEUZENROEDER  
who has been appointed curator of the Snake Park in succession to the late Mr. C. J. French.

roeder, conducted business as a chemist for many years. The business is now controlled by a brother of the curator, Mr. M. E. Heuzenroeder.

Educated at St. Peter's College, Mr. Heuzenroeder was foreman at Chateau Tannunda for a time. He holds a soldier settlement block at Cadell, where he grows fruit. During the war he served with the 27th Battalion.

Before 1914 the curator toured Australia with his younger brother, Gerald, who was killed at the war. The two visited agricultural shows all over the Commonwealth displaying snakes. For several years they showed on the fore-shore at Glenelg.

Covered With Scars

Mr. Heuzenroeder has been bitten 65 times by venomous Australian snakes, mostly tigers. His fingers and hands are covered with scars, the result of treatment. At least twice he has been near death. At Port Pirie in 1912 he was bitten on the tongue by a tiger snake. Considering that the reptile was ~~unconscious~~ <sup>unconscious</sup> he used to place its head inside his mouth. On that occasion he was unconscious within three minutes. Medical skill and a wonderful constitution pulled him through.

A week later the same tiger snake struck him on the third finger of the left hand. Being in a weak condition the venom almost proved fatal, and he was ill for three months. Despite the two attacks that snake was allowed to live.

"Tigers are always treacherous, vicious, and deadly," he said. "The late Mr. French probably under-estimated their deadliness."

There were about seven varieties of Australian snakes that were really venomous. Mr. Heuzenroeder pointed out. Chief among them were tigers, blacks, and browns. Others, such as whip snakes, or saltbush varieties—inhabitants of swamps in the South-East—contained enough venom to kill small animals, but if ordinary care were taken would not harm a human being.

Treatment For Bites

Mr. Heuzenroeder has been bitten hundreds of times by carpet snakes. He said that they caused many punctures, and it was advisable to keep the wounds clean.

To be successful treatment for snake-bite must be applied instantly. Mr. Heuzenroeder declared. The only antidote he used was potassiumate of potash. Gentle handling was essential for the successful taming of snakes, but great patience was required to persuade them to eat.

Wiring has been installed at the Snake Park for warming appliances to heat the boxes containing snakes. Neither Mr. A. K. Minchin (director) nor Mr. Heuzenroeder believes that much heat is required. The reptiles are able to stand cold better than heat.

Mr. Heuzenroeder will begin duties at the Snake Park probably at the end of next week. In the meantime the park will be open as usual and the present staff will give information and make some demonstrations.







28 Sat.

Letter from Kilburn Sedt  
acknowledging receipt of  
my papers (see March 5.  
Book 75.). which were ac-  
cepted for Leeds Univ.  
Library & will be bound  
and indexed. By ar-  
rangement, Mrs Schubert  
will to "Kirkstall" for the  
week end.

29 Sun

Took photographs of Mrs  
Schubert's hernia, which  
is of appalling extent  
(see over.).

30 Mon.

Flute Club. preparing for  
concert on June 27<sup>th</sup>.



# June.

JUNE.					
Sunday ....	-	5	12	19	26
Monday ....	-	6	13	20	27
Tuesday ....	-	7	14	21	28
Wednesday ..	1	8	15	22	29
Thursday ..	2	9	16	23	30
Friday .....	3	10	17	24	-
Saturday ....	4	11	18	25	-

1. Wed.

Museum Committee.

2 Thurs.

Received page proofs of  
"Records" also of Stale's  
Crustacea - hand book.

3. Fri.

Received notification that  
the odious "covering letter",  
instituted by Sowden,  
has been abolished & that  
a signed copy of each  
letter be filed in the office.

4 Sat.

Purnell arranged for me  
to meet Bishop (who pre-  
pared report on our Board),  
at lunch on Wednesday



5 Sun.

Wrote Cowan to dinner & tea. Wrote to Anderson re skeleton of crocodile in Aust. Mus. with bony scutes in position. Removed electric clock from bedroom to writing room.

6 Mon.

Holiday - Knip's birthday. A.E. Clarkson asked me to address the Rotary Club. I fixed the 17<sup>th</sup>.

7. Tues.

Meeting of Aquarium Soc. Issuing on Aquatic plants.

8. Wed.

Took Purnell & Bishop (of "Efficiency Board") to lunch & discussed situation -



9 Thurs.

Meeting Fauna & Flora Board  
in afternoon & Royal Soc.  
in evening. Exhibited the  
Tavau & Santa Cruz Is-  
birds.

Mr. E. R. Waite exhibited birds sent by Dr. Deland from Vanikoro. One of these birds (a honeyeater), he says, is utilised by the natives in making the feather money (Javan) of Santa Cruz. Mr. Waite also showed an example of tavau, or coil-feather money. This currency is known only from the Santa Cruz Islands, but is no longer made. Mr. Waite has written a paper on the subject (to be issued in the "Records of the S.A. Museum") to draw attention to an error in the few published descriptions of an object rather rare in collections. It has been previously stated that the crimson feathers used in the manufacture of the tavau were obtained from beneath the wing of a parrakeet. Dr. Deland, of Vanikoro, had recently sent a small crimson-colored honeyeater to the Museum, remarking that it was from such birds that the red feathers of the tavau were obtained. Investigation proved this statement to be correct. Many interesting notes on the value and customs connected with the currency were given and specimens of both the parrakeet (*Trichoglossus*) and honeyeater (*Myzomela*) were exhibited for comparison with those on the tavau shown.



10. Fri.

Took Rose to hear Alex.  
Watson. reciter.

11 Sat.

Collated drawings so far  
made for reptile Handbook.

12 Sun.

Made a fair start at  
clean copy Handbook MS.

13 Mon.

Flute Club. Rehearsal on  
the platform.

14. Tues.

Received £3. Canterbury  
College subscription to  
publications Linnean  
Soc. Meeting of Anthro-  
logical Board at the  
University. Wrote to  
Wilfrid for 11<sup>th</sup>.



15 Wed.

The whole part of 'Records' is in page form but Howchin asked leave to withdraw his paper (No. 3) for the second time owing to dilatoriness of his collaborator, Whitehouse.

16 Thurs

Paid Dr. Rex Plummer 10/6 for medical certificate (see May 3<sup>rd</sup>).

17. Fri.

Rotary club luncheon, I spoke on 'Fishes in relation to the element in which they live'. Finance Committee Zool. Soc.

18 Sat.

Reports in newspapers of Rotary Club luncheon made



me responsible for some  
wonderful saying. The  
'Register' only is good.  
At Museum in afternoon  
"Excursion" of Nat Club.

## DENIZENS OF THE SEA.

### ADDRESS BY MR. E. R. WAITE.

"A Talk by a Naturalist" was the subject of an address by the curator of the Museum (Mr. Edgar R. Waite) at the weekly luncheon of the Rotary Club at the Grosvenor on Friday. Mr. F. W. Fillmore was the chairman for the day. Guests at the luncheon comprised Messrs. A. Rodriguez, San Juan, Porto Rico; Basil Bennett, Sydney; R. Redpath, Tweedvale; J. G. Moseley, jun., Keith; J. W. Goodale, F. J. Munday, L. A. Cox, and W. Gurner, of Adelaide.

Mr. Waite referred to the temperature on the surface of the sea and said that at the equator it was 80 degrees, at the poles between 28 and 30 degrees, and at 2,000 fathoms over the whole of the world it was in the region of 35 degrees. Light penetrated only a comparatively short distance below the surface, and at a great depth there was no color in the sea owing to the fact that there was no light. The period of daylight, even at a depth of a few fathoms, was extremely short. The deepest soundings ever taken in the sea were off the Caroline Islands, where it was found that the sea was over five miles deeper than any mountains were high. Fish taken at a depth of more than 5,000 fathoms were greatly distorted in shape, owing to the great pressure to which they were subjected. Mr. Waite described his own experiences when going down into the sea in a diving suit as an illustration of the pressure to which denizens of the deep were subjected.

Advertiser. 18/11/27.



# FISH WITH HEADLIGHTS

## Curious Freaks of Nature

### ADDRESS BY MR. WAITE

Mr. Edgar R. Waite (curator of the Museum) entertained members of the Adelaide Rotary Club at their weekly luncheon today with an interesting discourse on "Fish and their relation to the element in which they live."

Referring to the peculiarities of various varieties of fish he said that specimens that lived in deep water were adorned with very large eyes so that they might catch every ray of light. Some were completely blind, but to help them in their difficulty Nature had adorned them with feelers round the mouth or on the fins which enabled them to find their way about their universe.

Others again were provided with luminous organs, by which they could light their way, something after the style of a motor car with headlights.

#### Oxygen Needed

If water were boiled and then allowed to cool any fish placed in it would immediately die from oxygen starvation. A great while would elapse before the water could reabsorb sufficient oxygen for fish to breathe.

Fish that lived in rivers and ponds had little vertical range, but it was a different matter in regard to the sea, where they were confined to zones. Some lived near the surface and others were found only at great depths. It was impossible for the two different sections to live in any but their own sphere.

That was due to the effect of atmospheric pressure, which increased at the rate of a little more than 14 pounds every 32 ft. At 5,000 fathoms the pressure amounted to between six and seven tons to the square inch.

News. 17/11/27.



The greatest depth at which fish had been discovered was 10,488 feet. There was no vegetation beyond 400 or 500 fathoms. and the fish that lived in that area were carnivorous, feeding on bacteria.

### Varying Temperatures

Temperatures on the surface of the sea at the equator was 80 degrees Fahrenheit, and at the poles between 28 and 30 degrees, which is just below freezing point. However, at 2,000 fathoms the sea water over the whole of the world was fairly uniform, being in the region of 35 degrees.

Mr. Waite said that the penetration of daylight in water was only slight, a white light being absorbed at 325 ft. Varieties of fish which existed below a depth of 1,625 ft. and were red in color in their natural element appeared black when brought before a white light. This was due to the fact that any color untouched by its own rays of the spectrum was colorless—that is, black.

### HOW FISH LIVE.

In speaking at the weekly luncheon of the Rotary Club at the Grosvenor on Friday concerning fish, Mr. Edgar R. Waite (Director of the Adelaide Museum) explained that fish did not breathe oxygen from the water, as was popularly believed, but that the oxygen which was used was that dissolved in the water from contact with the air. On account of pressure, deep sea fish could go only within limits of the surface and bottom. At the deepest part of the world the sea

18/11/27.  
Register



bed was 5,269 fathoms from the surface, or more than five miles in depth, which was greater than the height of any mountain. The pressure to the square inch in the spot indicated was between six and seven tons, and no fish had been known to have lived beyond 1,748 fathoms. With regard to light, red and violet rays, Mr. Waite said penetrated further than white, and therefore the deepest sea fish must be black. The day time of aquatic animals was short, for when the sun was at all low in the sky its rays were not reflected. The temperature varied at the surface in different parts of the world, but was equable about 2,000 fathoms beneath the surface. On account of the lack of light no vegetation was existent below 300 fathoms. The cause of the distortion of deep sea fish when brought to the surface was that the gases, which were existent within the fish to resist the enormous pressure of the water, expanded when the water pressure was relieved and disarranged the organs of the creature. With regard to diving, the director declared that matters were very different from what was popularly believed, and slow movement only was possible because of the pressure. Mr. F. W. N. Fillimore presided, and the guests included:—Messrs. A. Rodriguez (San Juan, Porto Rico), Basil Bennett (Sydney), R. Redpath (Tweedvale), J. G. Moseley, jun (Keith), and J. W. Goodale, F. J. Munday, L. A. Cox, and W. Gurner (Adelaide).

Wrote to Claude, he is  
again in Melbourne -  
Eldridge, who has charge  
of Wood Jones' repeat, gave



me some copies of P. Z. S.

19 Sun.

Photo'd a living Tiliqua  
for Reptile Handbook.

20 Mon.

Took up 2 £2 shares in  
Electric light Co. all that  
I am entitled to. Final  
rehearsal of Flute Club.  
concert on 27<sup>th</sup>.

21. Tues.

Bought a new Brooks' ( )  
Saddle £3. 7. 6. fitted :  
for the "Douglas". One  
could scarcely believe it  
was the same machine  
Having received invitation  
from Manager "Wondergraph"  
to see under water pictures.  
Went this evening -



22 Wed.

The rod-fisherman's prayer.

Lord, suffer me to catch a fish  
So large that even I  
When talking of it afterwards  
May have no need to lie.

23 Thurs.

Council meeting Roy. Soc.

24 Fri.

Passed final pagged proofs  
Museum Records - dated  
for publication. June 30.

25 Sat.

Post card from Watson.



just returned to London  
from Paris. promised to  
send letter next mail -

26 Sun.

Rode out to see Joe Ran  
who has been absent fr.  
Museum for 3 weeks -

27. Mon.

Sent news cutting Macquarie  
Is. drawing of fishes Car-  
icature book plate to  
Kilburn Scott. Concert  
Hute club }

28 Tues.

Wrote to A. H. S. Lucas for  
reprints of lizard papers.

29. Wed.

Mutch who has seen  
me "much" of late in  
respect to proposed aquar.  
at the Semaphore + whose



plans I have turned  
upside down tells me  
that the Port Adelaide  
Council have passed them  
he wants to put my name  
on the prospectus.

30. Thurs.

Tillyard wrote & said  
that the copy of his book  
sent to me by publishers  
was intended for the Museum  
I therefore wrote to George  
Robertson -



July.

JULY.				
Sunday	...	3 10	17 24	31
Monday	...	4 11	18 25	-
Tuesday	...	5 12	19 26	-
Wednesday	...	6 13	20 27	-
Thursday	...	7 14	21 28	-
Friday	...	1 8 15	22 29	-
Saturday	...	2 9 16	23 30	-

1. Fri.

Letter from Watson (see June 25). back in London after visit up Amazon. Having sent him a copy of the Greek! inscription he rejoined by the following in Latin!

"Iti Sapis polanda bigone."

3. Sun.

Wrote long letter to Watson.

5. Tues.

Presided at meeting of the Aquarium Soc.

6. Wed.

Museum Committee sat until 5.45. Exception was taken to my name. (in association with Museum)



appearing as hon. consulting specialist to the Aquarium but matter was referred to the Board.

7. Thurs.

Letter from Hellowell he wants to relinquish agency of "Readingley." Newspaper reviews of the "Records" appeared as below. The "News" published notice of the proposed Semaphore Aquarium (see below.)

8 Fri.

Am making good headway with the Reptile book & having concluded the parts on the Geckonidae Pyroptodidae & Varanidae.



### THE MUSEUM.

The third number of volume 3 of the records of the Museum, edited by the director (Mr. Edgar R. Waite) has been published by the Board of Governors. It contains an interesting reference to the Tavau or coil feather currency of Santa Cruz Island, written by the director, who received the following information on the subject from the Bishop of Bunbury, Western Australia:—"A coil of Santa Cruz feather money, which has largely lost the red feathers corresponds to our copper coins. A new red coil is to Cruzians what gold is to us. I once offered £2 for a new red coil, but the man refused it. Later I found that a small Berkshire pig would buy one, and I imported one for the purpose. A man buys a wife with one or two red coils and perhaps 50 worn ones. At a dance coils of money are hung on the coral slabs that surround the dancing ground by the man who gives the dance. I saw a man on his deathbed with his feather money hanging on the walls of the house; probably it had been divided for legacy purposes. This feather money is made by the men, on a wooden spatula about the width of a coil; pigeon feathers are glued together and tipped with red. When a sufficient number of these layers has been made they are bound together with string in such a way that only the red tips of the layers show." The records contain also a supplement to the catalogue of the fishes of South Australia by Mr. Waite, and articles as follow:—Australian opossum shrimps, by Mr. W. M. Tattersall; an account of the Staphylinidae, collected by Mr. M. Lea in Fiji and New Caledonia, written by Mr. Malcolm Cameron; descriptions of new Staphylinidae, by Mr. Arthur M. Lea; a new genus of water beetles, by Mr. Arthur M. Lea; some sawflies from the Australian region, by Mr. Runar Forsius; notes and descriptions of Chalcid wasps in the South Australian Museum, and a new butterfly of the genus *Papilio*, from Arnheim Land.



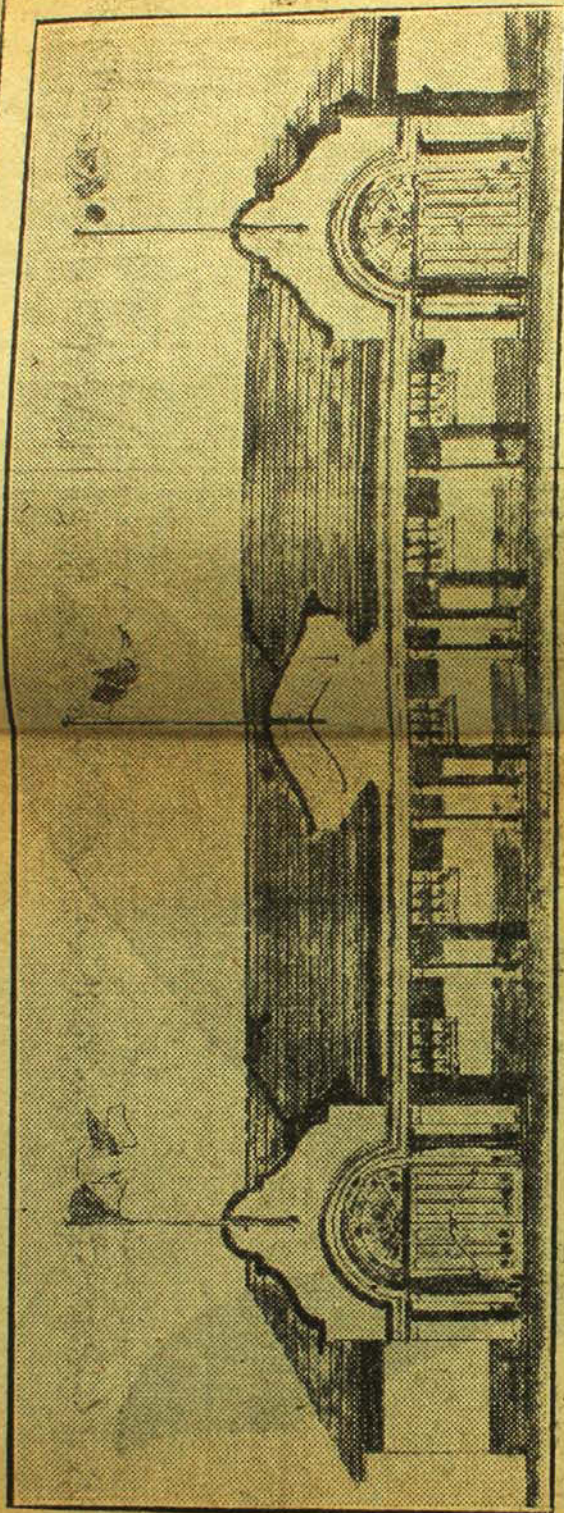
72

AD E L A I D E M U S E U M R E C O R D S .

We have received Vol. III., No. 3, of the Records of the South Australian Museum, published by the Board of Governors and edited by the Museum Director (Mr. Edgar R. Waite, F.L.S., C.M.Z.S.). Like the previous numbers of the series it is a well-printed quarto of 120 pages, with numerous illustrations. The contributions in the present issue are:—  
 "The Tavau or Coil Feather Currency of Santa Cruz Island," by Edgar R. Waite;  
 "Supplement of the Catalogue of Fishes of South Australia," by Edgar R. Waite;  
 "Australian Opossum Shrimps," by W. M. Tattersall; "Staphylinidae, collected by Mr. A. M. Lea in Fiji and New Caledonia," by Malcolm Cameron; "New Staphylinidae from Fiji," by Arthur M. Lea; "New Genus of Water Beetles (Dytiscidae)," by Arthur M. Lea; "Sawflies from Australian Region," by Runar Forsius; "Notes on Chalcid Wasps in South Australian Museum," by A. A. Girault; "A New Butterfly (Papilio) from Arnhem Land," by Norman B. Tindale. Dr. Tattersall, who is Professor of Zoology at the University College, Cardiff, has associated one of the species of opossum shrimps (Mysidacea), with the name of Mr. H. M. Hale (zoologist of the South Australian Museum), under the designation *Siriella halei*, in recognition of his work in having collected nearly the whole of the material on which the report on the genus is based. Of the sawflies noted, one new variety has been named in honour of Mr. Edgar R. Waite, and another in honour of the Rev. F. D. Morice, who by his type studies has very much contributed to the knowledge concerning these interesting insects.

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EXTERIOR VIEW OF PROJECTED AQUARIUM FOR SEMAPHORE

It is proposed to erect the structure so that it will face Semaphore Esplanade on the southern side of the jetty.

## SEMAPHORE AQUARIUM!

Attractive Building Planned

## EDUCATIONAL INSTITUTION

Plans of the aquarium it is proposed to erect at Semaphore, facing the esplanade and opposite the signal station, have been prepared by Messrs. F. Kenneth Milne and Evans, architects, for Mr. T. H. Mutch, sponsor of the scheme.



The area to be covered will be about 100 ft. by 200 ft., and the front elevation is of Dutch design with two rounded gables over entrance and exit porches and a colonnade verandah between. Provision will be made for the display of live fresh and salt water fishes, as well as other denizens of the deep. The structure will be of concrete, roofed with terracotta tiles.

The plans show a model hatchery in the main building, and the display tanks will house many varieties of fish. For the smaller specimens the tanks will be of reinforced concrete with plateglass fronts. In a lower area reached by steps will be large pools, below sea level, lined with white tiles, in which it is proposed that sharks, porpoises, crocodiles, sunfish, and the like shall be on view disporting themselves.

#### Research Laboratory.

A research laboratory, which will be used by University students, a comprehensive library dealing with fish in their many varieties, as well as tearooms, offices, and other conveniences are provided in the plans, and the institution should prove a distinct attraction to Semaphore, both from an educational and amusement point of view.

Mr. Edgar R. Waite, F.L.S., C.M.Z.S. (Director of Adelaide Museum), referring to the aquarium, said:—"When it is realised how wide flung are zoological gardens for the exhibition and study of land animals it may seem surprising that similar opportunities have not been generally embraced in respect to the much more varied character of fish and other aquatic animals. The initial difficulties concerning keeping fish alive have now been overcome and a modern aquarium may now be run as successfully as any zoo.

#### Fascinating Display

"The comparative strangeness of aquatic animals and their peculiar modes of life, coupled with the fascinating manner in which they have to be exhibited, renders an aquarium one of the most entrancing means of education and recreation that can be imagined. The appreciation in which aquariums are held by the



public may be gauged by the astonishing attendances that have been registered.

Mr. Alvin Seale (superintendent of the Steinhart Aquarium, San Francisco) was himself surprised at the numbers that visited his institution, and he says that the New York Aquarium with its 3,000,000 visitors a year is the most popular institution in the world.

"In the course of recent correspondence he wrote:—'It is a pleasure to note your effort toward an aquarium for Adelaide. There is nothing that will attract more notice than a properly conducted aquarium, and I believe there are few institutions of more educational value.'"

9. Sat.

Sent portion of Howchin's M.S. to printers (Handbook).  
Had Mr. Cowan's pamphlets on Insecta etc sent to the Museum for selection—

10 Sun.

Attended to some shrubs I had purchased from Cann.



11. Mon.

Got Library Staff to look over Mrs Cowan's literature (formerly her father's. J. G. O. Pepper.).

12. Tues.

Again visited Ray ( ) he tried to reassure me paid him 10/6 for the two consultations -

13. Wed.

Wrote to Mrs Butterworth



re agency of "Headingley"  
(see 7<sup>th</sup>).

14 Thurs.

Meeting Royal Society. I  
exhibited "Rain Stone" for  
Jugas Johnson.

16 Sat

Fitted wooden carrier to  
the "Douglas"

18. Mon.

N197-9

FIELD NATURALISTS' SECTION.  
LANTERN LECTURE

will be given To-morrow (Tuesday) Evening,  
at 8 o'clock, in the Lecture-room, Institute  
Building, North-terrace, by  
Mr. EDGAR R. WAITE, F.L.S., Director Museum,

"A NATURALIST ABROAD."

Admsision Free. Public cordially invited.  
N199 ERNEST H. ISING, Hon. Sec.

PRINCE ALFRED OLD COLLEGIANS' ASSOCIATION

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blo  
Cle

Purchaser of "Levis" paid  
me £5 and I wrote off  
the purchase - @ £31.  
Sent £4 to Linnean Soc -



Paid 5/- dog license -  
19 Tues.

Gave lecture in Institute  
See news cutting: -

20 Wed - "Advertiser"

union members.

## A NATURALIST'S IMPRESSIONS ABROAD.

### LECTURE BY MR. E. R. WAITE.

There was a large audience at the Institute Lecture Room, North-terrace, on Tuesday evening, when Mr. Edgar R. Waite, F.L.S., Director of the Museum, delivered an interesting and instructive lecture on "A Naturalist's Impressions Abroad" in connection with the field naturalists' section of the Royal Society. Mr. W. Champion Hackett presided.

Mr. Waite said that during the seven months he was absent from Adelaide he travelled thousands of miles by motor car on beautiful roads, and he made a number of trips by air. He was accompanied during part of his journeyings by Professor Watson. After leaving Australia the vessel was accompanied to South Africa by albatrosses, but these suddenly left them as they proceeded northwards. On arrival in London he noticed many changes since he was last there. The silk hat, which 40 years ago was prevalent, had become comparatively rare. He met some former residents of South Australia, amongst them being Professor Sir W. Bragg and Sir Henry Galway, who spoke



en in terms of warm appreciation of Australia and desired him to convey felicitations to the people of this State. (Applause.) He was greatly impressed with the wonderful greenness of the vegetation in the valley of the Thames. He had an interesting time in Yorkshire, his native county. Mr. Waite was in England during the coal strike, and he spoke of the miles of empty trucks, and the stagnation in manufactures which he witnessed. Sheffield, for instance, had probably never been so clean before. (Laughter.) He had his first trip in Yorkshire. Later he left London for Paris by aeroplane, in company with Professor Watson. This mode of travelling was rapid and comfortable. Its greatest drawback was the noise. Later he travelled in a German monoplane, driven by three engines. In it there was an absence of the humming sounds of the biplanes. A picturesque description was given of the clouds when seen below a plane which had soared to a height of 5,000 feet. Amongst the many places visited were war cemeteries. The English graves were well kept, and in some instances, as at Ypres, the original wooden crosses were being replaced by stones. French and German architecture and statuary were contrasted. At Hanover Professor Watson left for Paris, and he left for London. The trip across the Atlantic was described, and Mr. Waite gave some interesting descriptions of various places visited in America. The control of traffic in New York was remarkable for its efficiency. There he received a professional engagement for three weeks to fit up in the museum some cases of Australian fauna. He visited the Harvard and Yale Universities, and was received with great courtesy. When at Honolulu he spent some time at the famous aquarium, but he did not consider that this was equal in scientific interest to those of London, Berlin, and some other cities. He was pleased that it was proposed to erect and equip an aquarium at the Semaphore. If the work was proceeded with he believed it would have a fine educational value. So popular was the aquarium in New York that it was visited by 1,000,000 people annually, and was said to be the most popular educational institution in the world.



## SCIENTIST'S TRAVEL TALK.

### Mr. Edgar R. Waite's Impressions.

An extremely interesting evening was spent on Tuesday under the "travel guidance" of the Director of the Adelaide Museum, Mr. Edgar R. Waite, F.R.S. With the aid of numerous lantern slides, the lecturer entertained his audience at the lecture room, Institute Buildings, North terrace. Drawn from observations made when travelling overseas with Professor Watson, Mr. Waite spoke of progress made in London, America, and the Continent in connection with museums, zoological gardens, and aquariums. In London, among the people met, was Sir Henry Galway, who asked, with keen interest, about South Australian affairs. Much acroplaning was done in England and Europe, and thousands of miles were travelled by motor car in various portions of the globe. Splendid roads were invariably met with, save in the war-riven zones of Belgium and at Las Palmas, Canary Islands. Yet, the lecturer considered, those were not any worse than existed at present on North terrace. When touring through Sheffield and other manufacturing towns, they were all clean and quiet—too much so, for that indicated the effect of the British strikes. It was disquietening to see men playing skittles and bowls instead of being engaged in furthering industrial life. In Paris, Mr. Waite saw notices posted up asking for help for the British miners on strike. Returning to England, he beheld miles upon miles of empty coal trucks—indicating the enormity of the trouble.

#### The Continent and America.

A new aquarium in London had keenly interested Mr. Waite, and he spoke of the care taken to bring sea-water from the Bay of Biscay. In Berlin and Leipzig well-equipped aquariums were seen; and one of the latest, the Steinhart, in San Francisco, was very fine indeed. In Germany the gardens of Leipzig were a memorable



1. picture. The lecturer had been amused  
3. to note that when an engagement was  
1. announced, the prospective bride wore the  
wedding ring upon her right hand. Upon  
the marriage day it was transferred to  
the proper hand, and thus saved the ex-  
pense of a jewelled ring in the court-  
ship. In Leipzig the celebrated Zeitz  
Planitarium charmed the scientist, who  
said that in gazing at the sky with all  
the planets, sun, and moon, one soon for-  
got that it was an artificial enclosure,  
and seemed to have passed into space,  
too. There was now talk of a similar  
installation in London, but the quarter of  
a million sterling cost necessitated con-  
sideration. Mr. Waite observed that there  
had been considerable outcry by South  
Australian motorists that the villages  
should be named so that travellers could  
pick up their locality. In France and  
Belgium such sign posts were common,  
and written in three languages—French,  
German, and Flemish. Chatting upon  
American progression, the director spoke  
of the latest device in terraced houses,  
whereby garages were built under the  
dwellings—for just about every house-  
holder owned a car. Building restrictions  
now limited the elevation to 21 stories,  
and then the erection was set back, wider  
at top, to let sun and light in. It had  
been generally understood that the tallest  
building was in New York, but, in reality,  
Detroit possessed it, with the Book Build-  
ing, of 81 stories, totalling 873 ft. Singer's  
Building used to hold the prestige with  
612 ft. St. Paul's, London, was 404 ft.  
The Eiffel Tower, of Paris, just a skele-  
ton, was 999 ft. high. Each of these  
was shown on the screen. Cranberry cul-  
tivation in the United States was touched  
upon, with natives from Cape Verde em-  
ployed to harvest the crops. Ingenious  
arrangements for separating sound fruit  
from the bruised were also shown.

Mr. Waite touched upon the proposed  
aquarium for Semaphore, and showed plans  
which he considered adequate for the  
scheme. He had been interested always  
in establishing a local aquarium, and had  
tried previously to have one at Glenelg.  
It was a most instructive source of in-  
formation, particularly in a sea-girt coun-  
try. (Applause.)







21 Thurs.

Attended meeting Fauna &  
Flora Board.

22 Fri.

Letter from Mr. Butterworth  
(see 13<sup>th</sup>) recommending Mr.  
Norman Broughton of  
Cremorne Junction for the  
Agency of "Headingley". I  
wrote to him, also to  
Hellowell. Sent off CXXIV.  
reprints of "Record" papers.

23 Sat

Finished Annual Report.

25 Mon.

Gave to Pullen & sent to  
J. E. Marshall each an Oil  
painting of Uncle Banks  
in ack<sup>n</sup> of £20 given jointly  
when I left for England.  
each picture is worth £15.15.0.



Attended flute club, the  
second of the session.

26 Tues.

Drew up plan of structure  
of tanks in Semaphore Aquar.  
for Mutch.

27 Wed.

Wrote to Charles Barrett,  
in reply to offer to send  
photographs of reptiles. At-  
tended meeting of Anthro-  
pological Board. Received  
from Macmillan Brown  
as presentation his 2 vol  
work "Peoples and Problems  
of the Pacific."

28 Thurs.

Council meeting, Royal  
Society. S. A.



29. Fri.

Sent in annual report.

30 Sat.

Letter from Broughton accepting agency of Mosman property (see 22<sup>nd</sup>).

31. Sun

Spent day in bed a bad throat, fear would trouble again. Sir Joseph Verco, who has had his left eye removed, is doing well.



August.

AUGUST.					
Sunday ....	-	7	14	21	28
Monday ....	1	8	15	22	29
Tuesday ....	2	9	16	23	30
Wednesday ..	3	10	17	24	31
Thursday ..	4	11	18	25	-
Friday .....	5	12	19	26	-
Saturday ..	6	13	20	27	-

1. Mon

Paid State Income Tax for  
year ending June 30. 1926.

£13.

3. Wed.

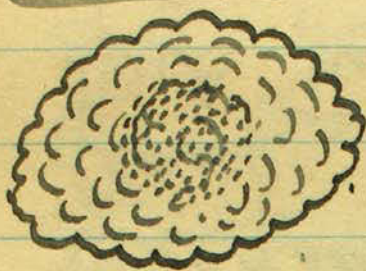
Museum Committee.

4. Thurs.

A terrific storm this  
evening. The hailstones  
battering the unlined iron  
roof of the laundry was  
like artillery. Some of  
the stones were more  
than an inch long. They  
consisted of a nucleus  
like ordinary Rail stones  
with a glassy covering  
lobuled like a mul-  
berry



hailstone.



Horsfield showed  
me a sketch of  
hailstones he had  
picked off the  
grass, supernumeraries  
in mine had  
doubtless  
broken off  
when the  
bricks were  
struck -

5 Fri.

Rev. Jenkins asked me for  
the world tour lecture on  
23<sup>rd</sup>. I am to give it to  
Y. M. C. A. on the 25<sup>th</sup> Mrs  
Levy (Hannah Lazarus)  
telegraphed from Perth a  
few days ago - She is  
due here to-night.



Letter from Claude; he has hopes of being taken on the beam wireless & passed a recent test. He announces an expected "arrival" in March -

6 Sat.

Hannah had mid-day meal with us at "Kirkstall" & left for sailing of the Malaja at 5 pm.

7 Sun.

Mrs Cowan to dinner & tea planted over the shrubs purchased July

8 Mon

Decided to take annual leave Aug 15<sup>th</sup> to 27<sup>th</sup>.

Sent in Federal & State Income Tax returns to 30/11/27.



Attended flute Club but did not get practice - As the conductor (Boehm) was absent I wielded the baton.

9. Tues.

Presided at meeting of the Aquarium Soc.

10. Wed.

Finished text of Handbook on Reptiles etc to end of Lizards. Snakes & Amphibians still to complete.

11. Thurs.

Meeting of Handbooks Committee, presented report of Hon. Editor. Decided that the first MS. presented after Geology ii. to be the next part. Attended meeting Roy. Soc.



12. Fri.

Wrote to Claude - (Cavins)  
in reply. he has better  
hopes of getting a "Beam"  
position.

13 Sat

Hales' Handbook Crustacea  
pt. i. published to-day.

14 Sun

W<sup>2</sup> Cowan to dinner + tea  
A fine week end for a  
change - gardening -

15 Mon.

Commenced my holidays  
Rev. J. C. Jennison asked me  
for lecture "a Naturalist  
abroad" on the 24<sup>th</sup> -

16 Tues.

Booked 2 seats for the  
Gorge + Millbrook Reservoir



tomorrow.

17. Wed.

Took Rose per Charabanc  
to Millbrook Reservoir by  
way of the Gorge.

18. Thurs

Filling in spare time of  
holiday in writing the  
book on reptiles. Have  
finished the lizards &  
commenced the snakes

19. Fri.

Taking my evening stroll  
bought "Blickenderfer" type  
writer for 7/6 out of order  
but in a good portable  
case.

20. Sat

Bought glass for Skylight  
in Verandah aquarium

£1.7.0.  
[66]



to replace the present  
small panes. I got  
wire netting reinforced  
glass also 2 pieces of  
Cathedral glass (6/-) for  
front door panes. Long  
cracked. Rode Burnside  
in afternoon and there  
joined naturalists. Walked  
to waterfall gully. Hales'  
"Crustacea" reviewed in  
Advertiser -

21 Sun.

Overhauled "Blitzendefer"  
& put it in mechanical  
order. Some letters do not  
strike truly.

22 Mon.

Called at Museum "got  
letters. One from Kilburn.



Scott. Van der, Velde  
asked me to judge the  
photographs at forthcoming  
exhibition - but I declined  
Arranged lantern slides

"The Crustaceans of South Australia"  
Vol. I. By Herbert M. Hale (Zoologist,  
South Australian Museum): British Science  
Guild (South Australian branch)—This  
valuable treatise is one of a series of hand-  
books of the flora and fauna of South  
Australia, published by the British Science  
Guild (South Australian branch). In his  
preface the author states that the majority  
of people hardly yet realise that, in study-  
ing the teeming life of the ocean, we are  
investigating the principal food resources  
of a not far distant future, when the fruit-  
fulness of the land will no longer be able  
to supply the needs of an overgrown human  
population. When this source of food  
supply is more widely utilised, much bio-  
logical research will be necessary in order  
to discover means of maintaining an in-  
creasing supply of the desired products,  
for constant and indiscriminate toll on  
certain forms will surely lead to their ulti-  
mate extinction. Already the depletion  
in numbers of the rock-lobster, or cray-  
fish, of the southern coasts of Australia is  
causing some anxiety. Indispensable parts  
of comprehensive biological research are  
the assignment of animals to their proper  
divisions, and the naming, describing, and  
cataloguing of them, so that they may be  
easily recognised. At present the study  
of the structure and relationships of  
marine creatures is the primary business  
of zoologists dealing with the oceanic  
faunas. The book, which is profusely

illustrated with photographs, classifies the  
crustaceae, giving an accurate description  
of the structure, appearance, and habits  
of each family and sub-family.



Received rent of "Headingley"  
from new agent. Visited  
flute Club & Anthropological  
Soc.

23 Tues

Miss Duncan to lunch  
gave lecture on recent  
travels at Pricie Street  
Methodist Church 150  
girls of the Methodist  
College - present.

24. Wed.

Left by 4.50. train to  
Mallala - previously met  
Basedow & suggested that  
when the question of  
the P.L.M. A.G. was before  
the House he should in-  
terest himself with view  
to our inclusion in the



Public Service. I was  
met at Mallala by Rev  
J. C. Jennison and gave  
lecture on a "Naturalist  
Abroad" at the Institute.

25. Thurs.

Jennison drove me out  
to the Light River: plenty  
of brown-coloured water  
Many old nests of Fairy  
Martins and mud wasps  
under rock shelters. Left  
by 2.25 train and on  
arrival at Adelaide gave  
lantern slides at Y.M.C.A.  
and attended Council  
Meeting Roy Soc. at 4.30  
Went home and returned  
to town. Lecture at the  
Y.M.C.A. at 8.0.



26. Fri.

"Advertiser."

### A NATURALIST ABROAD.

Mr. E. R. Waite, who delivered a lecture under the auspices of the Y.C.M.A. World Friendship Club on Thursday night, spoke on his recent world tour. He was introduced by the secretary of the Y.M.C.A. (Mr. J. T. Massey). After staying some time in London, where he visited the aquarium, for which water is brought from the Bay of Biscay to secure the necessary purity that could not be ensured nearer home, Mr. Waite visited his home county, Yorkshire, where he had his first aeroplane ride. He described his journey through other English towns before visiting Paris. The journey from London to Paris by aeroplane was now a regular means of travel. A small metal box near each passenger contained cotton wool to be placed into the passenger's ears to deaden the noise of the motor and winds. Each passenger had to weigh himself with his baggage! His fare depended on the total weight carried. The planes were electrically heated, and dials showed the passengers their altitude and speed. The coal strike was on when Mr. Waite left England, and posters in France called for funds to help the strikers. He visited the Planetarium in Germany. It was a most natural method of demonstrating and lecturing on the stars. Similar buildings were to be erected in London and New York. The building cost £250,000. Tramway and railway officials in Germany had the appearance of soldiers. His address was concluded with impressions of the return journey through America.



### "A NATURALIST ABROAD."

Under the auspices of the Y.M.C.A. World Friendship Club, Mr. E. R. Waite (Director of the Adelaide Museum) gave a travel talk, illustrated with excellent lantern slides, at the Victoria Hall on Wednesday night. A large and appreciative audience enjoyed his experiences as "A naturalist abroad." Mr. Waite gave informative accounts of aeroplane journeys from London to Paris and Berlin. From a scientific point of view what impressed him most in Germany was the planetarium at Leipzig. Within the dome stars pierced the darkness, while a green arrow travelled across the model firmament pointing to the particular star with which the lecturers was concerned at the moment. London, Jena, and New York had each a planetarium; but the cost was somewhat prohibitive—£250,000 apiece! New York possessed one of the most richly equipped natural history museums in the world, and Mr. Waite was commissioned while there to advise concerning the Australian section. He was impressed with the clever way in which the arts of the taxidermist and the scene painter were united in that museum to secure a lifelike effect. On his return journey Mr. Waite, who was accompanied throughout by Professor A. Watson (Emeritus of Adelaide), was interested in Sir Alan Cobham's dragons of Komodo. That East Indian island contained many of the dragons, ranging from 10 to 12 ft. in length. Their scientific name was "Varanus Komodensis." The lecturer described them as "glorified goannas!" Scientific aquaria,

he said, were under construction in London and New York. The former obtained its water from the Bay of Biscay to secure a purity unobtainable nearer home. South Australia was likely to have its own aquarium at Semaphore in the near future.



27.

~~28.~~ Sat.

Post-card from Watson, it was written from Spitzbergen.

29 Mon.

Returned to work after a fortnight's holiday spent largely on the reptile book.

30 Tues.

Wrote to Agent in acknowl<sup>d</sup> to Hellowell, thanking him for past services.

31. Attended annual meeting of Zool. Soc at noon & at 4, meeting of Flinders Chase Board, when the Chairman asked me to draft the Annual Report.



# September.

SEPTEMBER.				
Sunday	.....	4	11	18 25
Monday	.....	5	12	19 26
Tuesday	.....	6	13	20 27
Wednesday	.....	7	14	21 28
Thursday	.. 1	8	15	22 29
Friday	..... 2	9	16	23 30
Saturday	.. 3	10	17	24 -

1. Thurs.

Received dividend £16.18.0  
 Elec. Light Co. The N.3.  
 Refrigerating Co. has not  
 paid a dividend since  
 March, 1926. Wrote draft  
 Annual Report - Fauna  
 & Flora Board and sent  
 to Secretary (see Aug. 31.).

2. Fri.

Remarkable!! To day  
 I received dividend from  
 N.3 Refrig. Co £17.10.0.  
 (see note written yesterday.)

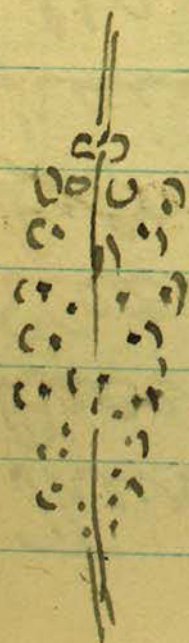
3 Sat.

Invited by a visitor, Gilbert  
 Rigg, interested in Ethnology  
 to go for a jaunt tomor-  
 row.



4 Sun.

Hubert Regg's party called  
for me at 9 A.M. Consisted  
of Keith Ward. Campbell  
(who drove) Mossfeld & Self.  
5 in all. Went by way of  
Torrens Gorge & Cudley Creek  
to Tungkillo and inspected  
Native paintings in a  
rock shelter. I got frogs'  
spawn. One kind in masses  
on the surface, the other  
clustered round single  
rush stems. Submerged.



Swallows' nests un-  
der the shelter  
contained eggs. Mud  
wasps nests also  
there as at Mal-  
lala - Drove on



to Eden Valley and did  
some climbing to other  
shelters - Returned via  
Tea Tree Gully & reached  
home at 6.30 pm.

5. Mon.

Took photo. of cluster of  
frog's eggs. Obtained the  
script 2 Electric Light  
co's shares - Attended the  
Flute Club practice.

6 Tues.

wrote monthly report.

7. Wed.

Museum Committee.

8. Thurs.

Sent a first instalment  
(22) of illustrations for  
the Reptile handbook to  
the blockmakers. Attended



meeting Roy. Soc. SA -

9 Fri.

Chas Barrett, Victoria sent  
me a nice lot of photos.  
of reptiles for my book -

10 Sat.

Ack<sup>d</sup> Barrett's letter: Sent  
a further lot (20) of  
drawings to block makers.  
These are sent in advance  
of Govt Printers order for  
Porter Barnett want to  
make blocks in their slack  
times and are risking!  
payment.

11 Sun

Mrs Cowan. Mrs Jewell  
Mrs Burgoyne to dinner  
and tea. Music in the  
evening.



12. Mon.

Letter from Connie. Claude has now been appointed to the "beam" service & has left the sea. I wrote to him. Wrote Percy Kemp. Whose wife has died & to Mr. Waite.

13. Tues.

Sent photographs & drawings to block makers, to the number of 69 in all (see 8<sup>th</sup> and 10<sup>th</sup>). attended social evening of Linusark Club. Played flute solo & in trio.

14. Wed.

Preparing drawings by photographing - lining - in and bleaching -



15. Thurs.

The Govt. Printer will now accept drawings for the Reptile book. So far the arrangement has been between the block makers and myself. Mr. Burgoyne spent the night with us.

16. Fri.

Sold another of Mr. Cowan's books. - Vict. Nat. Vol i. to W. C. Hackett for 5/-

17. Sat.

Letter from Watson, again in London. One from E. K. Scott - he tells me that I have been elected a V. P. of the "Beds Middle Class Sch Old Boys' Soc."



# Leeds Middle Class School Old Boys' Society.

*President*—Wm. BRIGGS, M.A., LL.D., B.Sc., Burlington House, Cambridge.

*Chairman*—E. KILBURN SCOTT, M.Inst.E.E., 38, Claremont Sq., London, N.1.

*Vice-Presidents:*

Sir Emsley Carr, F.J.I., Herbert Eccles, F.C.S., W. Hargreaves, J.P., M.I.Min.E., J. E. Kitchen, F.A.Inst., Ernest Newell, M.I.Mech.E., Thomas S. Peacock, Edgar R. Waite, F.L.S.

*Hon. Secretaries:*

H. JENNINGS,  
90, Shepherds Lane, Leeds.

H. YOUNGHUSBAND,  
2, Nunroyd Road,  
Moortown, Leeds.

Miss M. LICENSE,  
Wood View, Horsforth.

*Committee:*

W. H. Briskham, G. R. Carr, A. E. Denison, C. N. Hefford,  
W. K. Ison, Geo. Jackson, M.P.S., T. L. Jennings, P. T. Leigh,  
A. Linsley, A. S. Robinson, M.A., M.B., A. Wardle-Robinson,  
Rev. W. E. Smith, Thos. Thornton.

*Hon. Treasurer:*

G. S. WAINWRIGHT,  
Westminster Bank Ltd., Leeds.

*Convener of Entertainment Committee:*

ARNOLD LINSLEY,  
51, Cookridge Street, Leeds.

*Press Correspondent:*

A. J. DOBSON,  
4, Queen Square, Leeds.

15th August, 1927.

Edgar R. Waite Esq.,  
The Musuer,  
Adelaide,  
South Australia.

My dear Waite,

This is to inform you that you have been elected a Vice president and your name will appear on the Memorial tablet that is going to be unveiled on September 5th at the School.

There will be a Reunion dinner afterwards at which I am sure to make reference to yourself, therefore if your ears tingle on that date you will know the reason why.

Yours sincerely,





10 1/2



19. Mon.

Letter from C. Anderson  
re extending scope of the  
Museum Magazine. Had  
meeting of our scientific  
staff to discuss project.  
Paid L & L C. Ins. Co. 21/-  
insurance on "Headingley".  
Members of Flute Club had  
group photo taken of the  
present members and then  
to practice.

20. Tues

Prepared a 4<sup>th</sup> instalment  
of drawings nos. 70-94 to  
send to block makers. Cole  
& Hale visited "Kirkstall" to  
select an aquarium for  
the flower show but mine  
are too large for purpose.



21. Wed.

Mounted additional stamps  
in frames of the zoological  
series for flower show.

Wrote to Anderson re the  
Museum Magazine & sug-  
gested a conference at  
the Hobart meeting of the  
A.A.S. Paid insurances  
to Norwich Union 14/10.  
in respect to "Kirkstall".  
(Port Adelaide in afternoon.  
engagement cancelled until  
Monday.)

22 Thurs.

Council Meeting, Roy. Soc.  
Lyman Clark has, at  
last, sent his MS. of the  
echinoderms. Handed in  
title of paper on fauna K.A.



23. Fri.

Exhibited Drawings of ducks  
& zoological postage stamps  
at Wild Flower Show &  
attended in evening.

Mrs Osborne has relinquished  
idea of writing  
handbook on seaweeds &  
Miss Macklin is suggested.

24. Sat.

Ising rang me & asked  
for an address at Flower  
Show this evening. I spoke,  
with lantern slides on  
"Queer Fish."

25. Sun

Mrs Burgoyne came & stayed  
overnight. Mrs Cowan and  
Mrs & Clewellyn in the  
evening - music -



26. Mon.

To Port in the morning was met by Capt Cree & Messrs Brown & Kirby and inspected the local Museum preliminary to advising the Committee as to its ultimate arrangement. Collected exhibits for the Town Hall.

27. Tues.

Wrote report on Pt. Adelaide Museum and posted to A. W. Brown. Mr. & Mrs S. Barnett, Christchurch, paid me a visit. Rose took Mrs Burgoyne to Semaphore.

28. Wed.

Attended meeting Fauna & Flora Board.



29. Thurs.

Half-day holiday. for  
Agric Show which I at-  
tended.

30 Fri.

Received first proofs of  
illustrations for handbook  
Commenced preparation of  
a list of reptiles & amphib-  
-ians of Kangaroo Island.



# October

OCTOBER.						
Sunday	....	- 2	9	16	23	30
Monday	....	- 3	10	17	24	31
Tuesday	....	- 4	11	18	25	-
Wednesday	....	- 5	12	19	26	-
Thursday	..	- 6	13	20	27	-
Friday	.....	- 7	14	21	28	-
Saturday	..	1	8	15	22	29

1. Sat.

Mr. Burgoyne who has been staying with Rose for a week left to-day

2. Sun.

Cotton came to "Kirkstall". Together we overhauled & decarbonised the "Douglas" paid him 10/-.

3. Mon.

Attended practice of the Flute Club but the lower joint of the flute, which has been giving trouble for some time broke down.

Bought selected books from Cann at ridiculously low prices. Made dental appointment for Thursday.



4. Tues.

Things getting too bad & visited Hoskings who took the nerve out of the left lateral upper incisor, & put in temporary filling. Mr Stone rang me up about a new motor tyre rim which is split along the periphery and makes changing an easy matter. Attended University meeting of North South Railway Committee.

5. Wed.

Bought 10 shares in the motor-air project for £15. The invention seems to be a splendid one and "simplicity itself".



## **Twin Motor Rim Company**

South Australian Twin Motor Rim Company, Limited, has been registered in South Australia with a capital of £2,000 in shares of £1 each.

Objects.—To adopt and carry into effect an agreement made between Charles William Fenn, Frederick Charles Burford, James Frances Walsh, and Reginald William Jenkin, of the one part, and the company of the other part; to sell or let or grant any patent rights belonging to the company; to register any patents for inventions, and to turn to account any patent rights or privileges; to manufacture and deal in any articles or appliances connected with letters patent.

The agreement provides that the persons mentioned above, as vendors, shall sell, and that the company shall purchase the full and exclusive benefit of the provisional patent issued by the Commonwealth Patents Office, numbered 8271, granted to C. W. Fenn and F. C. Burford in respect of an invention in relation to motor tyre rims, with the two models of the invention already made. As consideration for the sale the company has paid to the vendors £250 in cash, and shall issue to each of them 255 fully paid shares.

Suscribers to the memorandum of association:—James Frances Walsh, mercer, of North Adelaide; Theodore Charles Hill, mercer, of Royston Park; Frederick Luther Morter, civil servant, of Wayville; Campbell Smith, company manager, of Wayville; and Patrick Joseph Christie, solicitor, of North Adelaide.

First directors:—Messrs. C. Smith, J. F. Walsh, T. C. Hill, Frank William Hunt, clerk, of North Norwood, and P. J. Christie.

Registered office, No. 45 Steamship Buildings, Currie street, Adelaide. Incorporated October 20, 1927.



Took the flute to Andrews  
to be repaired (see 3<sup>rd</sup>).  
Decided to add Mammalia  
to "Fauna of Kangaroo Is."  
Museum Committee.

6. Thurs.

To dentist. 9. am. Hocking  
filled the tooth (see 4<sup>th</sup>).  
Received and acknowledged  
invitation from Federal  
Commission on Development  
& Migration to join Com-  
mittee on Biological Stations  
in connection with Fisheries.  
Attended R. S. Council.

7. Fri

Called on Summers. See.  
Agrie Opt & on Bruce re  
invitation of the D. & M.  
Commission for information



✓ then on our Vice President  
(Dr. Rogers) who will put  
the invitation before the  
Board on the 21<sup>st</sup>.

8. ~~Fri.~~ Sat.

Erected a wireless pole for  
a new ariel.

9. Sun.

Made necessary connections  
with new ariel and got  
greatly increased volume  
of sound from S.C.L., but  
perhaps lose selectivity.

10. Mon.

Finished list of Mammals  
of Kangaroo Island, with  
which I am associating the  
name of Wood Jones. He  
left some notes behind  
on going to Honolulu.



11 Tues.

Finished list of Reptiles  
& amphibians of Kangaroo  
Island for 'reading' at  
meeting of Roy. Soc on  
13<sup>th</sup> (see also 10<sup>th</sup>). Presi-  
ded at meeting of Aquarium  
Soc.

12. Wed.

Holiday - labour day. spent  
in garden. fixed lightning  
arrester in Wireless circuit.  
wrote to Claude in reply.

13 Thurs

wrote to Mrs Waite, yester-  
day being her birthday  
Had 3 holes filled in  
my teeth by Haskings.  
attended annual meeting  
Roy. Soc. reelected V. P.



becoming senior V. P.  
Presented paper Mammals  
K. J. Wood Jones & self  
& on Reptiles & Amphibians  
by self.

14. Fri.

2030.  
The report and balance sheet were adopted.  
Officers elected:—President, Professor J. B. Clland; vice-presidents, Mr. E. R. Waite and Dr. L. Keith Ward; hon. treasurer, Mr. B. S. Roach; council members, Dr. C. Fenner and Professor J. A. Prescott.

Mr. E. R. Waite, who dealt with the mammals of Kangaroo Island, said there were nine terrestrial mammals listed as occurring on the island. Four had been introduced by the Fauna and Flora Board, the ring-tailed opossum, the native bear, the rat kangaroo, and the wombat. The alien introductions of the pig and feral cat had been destructive to the native fauna and flora, but rabbits placed on the island many years ago had fortunately failed to establish themselves. The reptilian fauna included two marine turtles and 14 lizards, of which the iguana was the only indigenous carnivorous animal on the island. The shingleback (or sleepy lizard) had been introduced. The only snake found on the island was the tiger snake, but there it was so subject to melanism, or blackness, that the characteristic dark bands were almost lost in the general depth of color. There were five species of amphibians, which were all common to the mainland.

Mr. H. M. Hale submitted

Saw Ornithologists off for  
congress in West. Aust.



15 Sat.

Letter fr. Kilburn Inst  
enclosing programmes of the  
Ceremony of unveiling the  
Old School Memorial tablet,  
& asking me to send copies  
to Rowling and the Shaws  
Sent one to the former &  
asked him for addresses  
of the latter

16 Sun.

Wrote to "Cousin" Mr. Alf  
Robinson. his name also  
appearing on the ceremony  
programme.

17 Mon.

Wrote to Watson. Attended  
practice of Flute Club.

18 Tues.

Sent telegraph recorder



to Claude (railage 8/4.).

18. Wed.

wrote to Watson.

19 Thurs.

Received a summons for next Monday for exceeding the speed limit. I had a leaky tyre and attempted to get <sup>home</sup> with a minimum amount of pumping so was "nabbed".

21 Fri.

Finished the writing of the handbook. "revision" + completion of selection of illustrations still to do.

20. Sat.

went with Cotton to the evening motor cycle races. some spills & thrills.



23. Sun.

Called on Mrs Cowan & invited her to dinner, then to hospital & saw Mrs J Young. member of our Board, who has probably lost the sight of the remaining effective eye -

24 Mon.

Attended traffic court & was "awarded" the following:-

Date

Case No

2



ADELAIDE POLICE COURT.

No. **4315**

Date.....

22/10/77

Case No. ....

13707

RECEIVED from.....

Adelaide

Adelaide

£

2

:

00

Receiver.



On my recommendation  
the Board on Friday ap-  
pointed Stansfield as  
assistant to taxidermist &  
formator, on probation. I  
was granted leave of ab-  
sence in connection with  
the Federal Marine Biologi-  
cal Inst. (see 6<sup>th</sup>). On  
receiving reply from C.  
Rowling, with Fred Shaw's  
address, I wrote to latter  
(see 15<sup>th</sup>) Walter Shaw is dead.

25. Tues.

The Annual report of the  
Board has been published  
& it is surprising that my  
note has passed editorial  
committee (Publication).  
See over.



*Publicity.*—The Acting Director, who prepared the last annual report, drew attention to the falling off of the attendances, and suggested that a policy of publicity might be adopted. Since then members of the scientific staff have contributed articles to the press and otherwise drawn attention to the exhibits. Whatever the cause, it is gratifying to note that the attendance of the public during the succeeding year was over 18,000 in excess of the previous 12 months. I am of opinion that if the Board would further recognise that members of the scientific staff have the wellbeing of the institution at heart and permit greater freedom in approaching the public direct, the Museum would become still more popular. Stilted officialism is objected to by the public.



27. Thurs.

Presided at Council meeting  
Roy. Soc.

28 Fri.

Minister of Education  
(Mr. Duloch) visited the  
combined institutions -  
Dr. F. X. Schaffer, director  
of Vienna Museum, spent  
afternoon with me.

29 Sat

Took Schaffer to the zoo  
and Snake Park.

31. Mon.

Wrote to Benham re an  
alleged aquarium at  
Dunedin. Wrote to the  
Development Commission  
re Biological Institute &  
expert in fisheries.



Attended meeting of the  
Anthropological Board at  
the University, 4:30 and  
flute club at 8:00. The  
concert fixed for Nov. 14.



NOVEMBER.							
Sunday ....	-	6	13	20	27		
Monday ....	-	7	14	21	28		
Tuesday ....	1	8	15	22	29		
Wednesday ..	2	9	16	23	30		
Thursday ..	3	10	17	24	-		
Friday ....	4	11	18	25	-		
Saturday ....	5	12	19	26	-		

# November.

1. Tues.

Annual meeting of Aquarium Soc. wrote a notice which I sent to the newspapers (see over). Was reelected President.

2. Wed.

Museum Committee and annual inspection. Paid Municipal Rate. £ 6 =.

3. Thurs.

Wrote Biological Institution re suggestion from W. Aust. Paid Sub. Roy. Soc. 2/-

4. Fri.

Terrible ferry smash. Sydney. Paradise among the missing

## THREE DOCTORS MISSING.

There are ten dead, 37 injured, and five known to be missing. Among the missing are three well-known medical men, Drs. Lee Brown, C. W. Reid (chief quarantine officer), and Surgeon-Commander Paradise.



5. Sat.

Mr. Bureoyne left after  
a fortnight with us.

6. Sun.

Went to Oaklands with Rose  
in afternoon I set traps  
in Sturt Creek but got  
no fish - Yabbies, tadpoles  
+ shrimps.

7. Mon.

Took to printers, U.S. of  
"Records", III. No 4. Letter  
from Fred Shaw in answer  
to mine re Scott. Attended  
practice of Flute Club.

8. Tues.

Wrote to Scott & enclosed  
letters from Rowling and  
Shaw.



## AQUARIUM SOCIETY.

At the annual meeting of the South Australian Aquarium Society on Tuesday evening, the president (Mr. Edgar R. Waite) congratulated the members upon having maintained the work and interest of the society for ten years. In his presidential address he dealt with the aquariums of the world, described such as he had seen during his recent visit to Europe and America, and laid down the scientific principles on which large public aquaria were maintained. He outlined the various attempts made to establish a public aquarium for Adelaide, and regretted that several seaside municipalities had not more strongly supported the ventures, made largely at the instance of the society. Mr. Waite next dealt with the most recent project, which was being independently conducted on commercial lines, and was therefore outside the activities of the society. By the kindness of Mr. T. H. Mutch, the promoter, the president was enabled to exhibit a complete set of plans, proposed by Messrs. Kenneth Milne and Evans. The site chosen is at the Semaphore, directly south of the pier. The aquarium will consist of three portions, two of which will be under the main roof, the third being open to the air. In this space will be constructed large concrete tanks at ground level to accommodate big aquatic animals, such as turtles, crocodiles, sharks, and seals.

The main building will house the aquarium proper, which will include a large hall for fresh water aquaria. In this will be shown both native and exotic fauna and flora, maintained on the so-called "balanced" principle, in which water is not changed. This section will be especially educative, and installations of private aquaria on similar lines will be encouraged, being adapted particularly for school use. This hall will be suitable for lecture purposes, and members of the Aquarium Society will be invited to address visitors on aquarium subjects. The larger part of the main edifice will be devoted to the display of marine organisms shown in separate tanks, the salt water derived from the gulf being specially filtered before being admitted to the fishes and other denizens. The plant will include pumps, air compressors, and other appliances, which, being electrically driven, will require a minimum of space and financial outlay. The promoter has wisely accepted a suggestion that portion of the building should be set apart as a research laboratory and fitted for the use of students of marine problems. It is anticipated that investigators at the University, the Museum, and other institutions will find the facilities afforded of great use in their researches. The president concluded by assuring Mr. Mutch of the great interest taken in the project by members of the society, and wished him every success in his most laudable undertaking.



## AQUARIUM SOCIETY.

The annual meeting of the Aquarium Society was held on November 1 at Mr. J. W. Hosking's rooms, Norwood. The president (Mr. Edgar R. Waite) congratulated members upon having maintained the work and interest of the society for ten years. The membership has now reached a total of forty, and a dozen of the aquarists are foundation members. Mr. Hosking, who for a decade has provided a room in which the meeting are held, was warmly thanked for the privilege. This year six general meetings and three arranged excursions were held, and in addition some of the members made many informal trips in search of aquatic life. Messrs. Hale, King, Nettlebeck, Trigg, and Waite delivered addresses at the meetings. The annual camp, held this year at the Finnis, was most successful. Three of the members arranged an aquarium exhibit at the wild flower show of the Field Naturalists' Section of the Royal Society, held in the Town Hall in September. Officers elected:—President, Mr. Edgar R. Waite; vice-presidents, Messrs. C. E. Cole and J. W. Hosking; committee, Miss Roeger and Messrs. B. B. Beck, C. F. Blewett, R. Carpenter, J. W. Goodale, H. Haga, and T. Nettlebeck; auditor, Mr. A. E. Wadey; secretary and treasurer, Mr. Herbert M. Hale.



9. Wed.

Received & replied to a  
categorical circular re  
Biological Institution -  
First Century of the Season  
102. 2<sup>o</sup> Received proofs of  
the two papers on Tangaroo  
Island.

10. Thurs.

103. 1<sup>o</sup> Preparing illus-  
trations 123 - for the  
handbook.

11. Fri.

Received L. D. C. M. C. S.  
Souvenir - book prepared by  
Kilburn Scott. He has got  
a lot of reminiscences into  
it and has given me more  
than my share of space.



12. Sat.

Attended Melba's concert, a  
positive farewell! Grethe  
Callow and Lemone.

13. Sun.

Mr. Burgoyne came again  
last Wednesday & remained  
Mr. Cowan came to dinner  
and tea.

14 Mon.

Flute Club concert. played  
in the "ensemble". At-  
tended special meeting of  
Council Roy. Soc. to con-  
sider Mountford's paper  
Decided that the author  
should, with Howchin & self  
write an addendum -  
Afterwards Howchin asked  
me to write the par. &



he would look it over  
& submit it to Mountford.

## SOUTH AUSTRALIAN FLUTE CLUB

### OFFICERS FOR 1927

B. H. KELSEY, *President*.  
A. BÖHM, K.C.M.L., *Hon. Conductor*.  
MRS. HAROLD KELSEY, *Hon. Accompanist*.  
L. VON BERTOUCHE, *Hon. Secretary*.  
O. BROKATE, *Hon. Treasurer*.  
G. W. GRAY AND C. JOLLEY, *Committeemen*.

## Programme of SECOND CONCERT

UNITARIAN HALL, WAKEFIELD STREET,

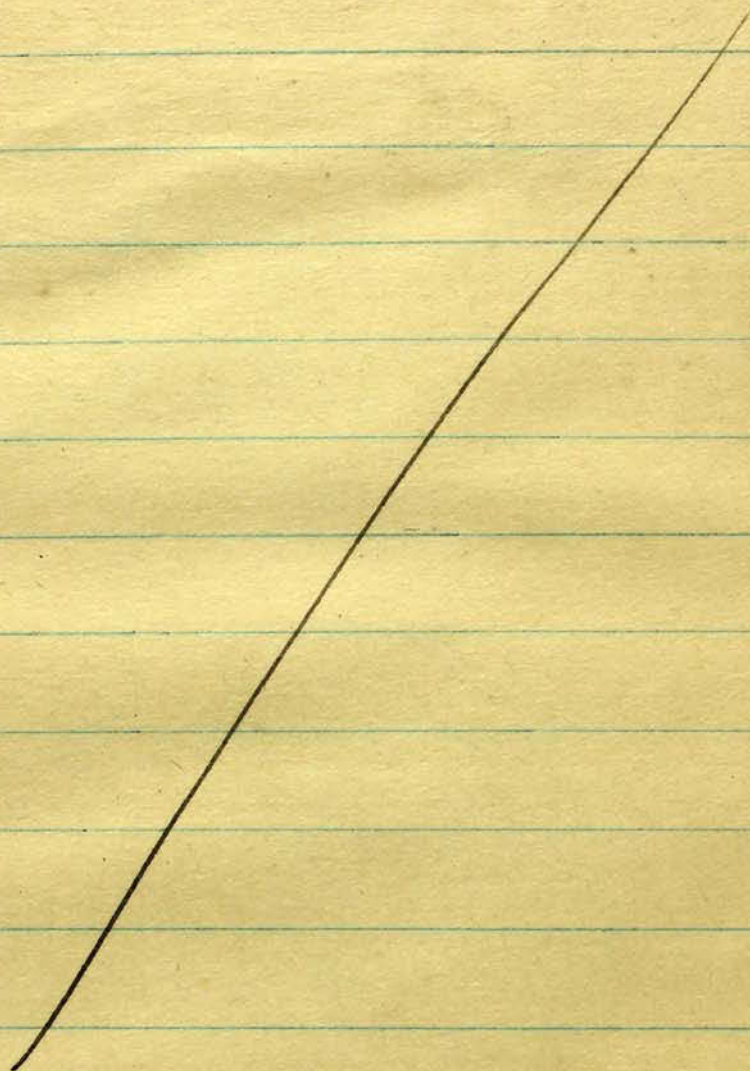
ADELAIDE,

14TH NOVEMBER, 1927.

- |   |                  |
|---|------------------|
| 1. FLUTE TRIO: "Ti Prego"                         | <i>Churchman</i> |
| MESSRS. O. BROKATE, L. VON BERTOUCHE,<br>A. NOSKE |                  |
| 2. SONG: Selected                                 |                  |
| MRS. E. H. LOWE                                   | <i>Köhler</i>    |
| 3. FLUTE DUET: Concert Duet                       |                  |
| MR. A. NOSKE, MR. J. MULLINS                      |                  |
| 4. PIANOFORTE SOLO: Selected                      |                  |
| MRS. HAROLD KELSEY                                | <i>Elgar</i>     |
| 5. 'CELLO SOLO: "Salut D'Amour"                   |                  |
| MR. F. KOCH                                       | <i>Kuhlau</i>    |
| 6. DUET FOR FLUTES: Andante from Opus 10          |                  |
| ENSEMBLE BY MEMBERS                               |                  |
| SHORT INTERVAL                                    |                  |

- |   |                   |
|---|-------------------|
| 7. FLUTE SOLO: "Concertstück"   | <i>Popp</i>       |
| MR. A. BOHM   |                   |
| 8. SONG: Selected   |                   |
| MRS. E. H. LOWE   |                   |
| 9. TRIO (Piano, 'Cello, and Flute): Serenade                                | <i>Till</i>       |
| MRS. HAROLD KELSEY, MR. F. KOCH,<br>MR. O. BROKATE                          |                   |
| 10. FLUTE SOLO: "The Nightingale"   | <i>Donjon</i>     |
| MR. E. ANDREW   |                   |
| 11. BASS FLUTE SOLO: Serenade   | <i>Schubert</i>   |
| MR. G. W. GRAY  |                   |
| 12. FLUTE SOLO: "La Favorite de Vienne"                                     | <i>Terschak</i>   |
| MR. O. BROKATE  |                   |
| 13. TRIO FOR FLUTES: Serenade   | <i>Mercadante</i> |
| ENSEMBLE BY MEMBERS   |                   |
| "GOD SAVE THE KING"   |                   |
| <hr/>   |                   |
| Annual Subscription, £1 1s.   |                   |
| Secretary's Address: 4 James Street, Clarence Park, or ring<br>C. 7190.     |                   |
| The Club is open to non-playing members: Annual subscrip-<br>tion, 10s. 6d. |                   |
| Furness pianos kindly lent by the<br>Manufacturers.                         |                   |





2. 1000.



15. Tues.

Howchin, Mountford & self met and discussed the question of M's paper. As I was unable to accept M's "addendum." The matter was left with H. & M.

16. Wed.

Having found the letter written to me by Miss Schenck, (companion on the trans-american train) & dated Nov. 27. 1926. I wrote to her and enclosed photo taken en route. Received message fr. the Government Printer that he can now take U.S. of my reptile handbook.



Sent in final U.S. of  
Howchin's Geology. pt II.

17. Thurs.

Received part proof of  
Lyman Clark's paper on  
Echinoderms. Bought nice  
copy of Cyclopaedia of Nat  
Hist. 1856. 4 Vol in 2. 7/6.

18. Fri.

Bought 8 portfolios with  
"100 Greatest men" 12/6.  
Wrote preface to handbook

19 Sat

Paid Nostling £1-11-6  
for dental services.

20 Sun

Made contact breaker to  
cut motor current operating  
the air compressor bought  
in Leipzig.



21. Mon.

Received proof of further  
6 illustrations - handbook.

22. Tues.

### PUBLIC LIBRARY OFFICERS' PICNIC.

The annual picnic of officers of the Public Library, Museum, and Art Gallery was held at Port Noarlunga on Tuesday. The weather was unfavorable, and the sports programme had to be abandoned. About 70 officers attended, including Messrs. A. W. Brown and H. E. Fuller (members of the Public Library Board), F. E. Meleng (secretary of the Institutes Association), H. W. Marshall (general secretary), and E. R. Waite (director of the museum).

### SCIENTIFIC SURPRISE.

#### The False-Killer Whale.

It was recently announced in The Register that a school of whales, 120 in number, had stranded in Dornoch Firth, north of Inverness, Scotland, and that the local health authorities were in a quandary as to what course to adopt in regard to the carcasses, on account of their being such a menace to the health of people living in the neighbourhood. It was suggested that they should be towed out to sea, and got rid of in this way. In view of the fact that so many North Britons are engaged in the whaling industry, it was a source of wonderment that no effort should have



been made to secure the oil and the whale-bone, but an explanation was afforded in a cablegram which appeared in The Register on Saturday. According to this cable, a zoological expert was dispatched from the British Museum to examine the stranded whales, and to his surprise discovered "a whale for which science had been searching vainly for 80 years," and it was added:—"Until now no scientist has ever seen one of these 'false killer whales' in the flesh." Two of the carcasses, which were sent to the British Museum, weighed respectively 1 ton 14 cwt., and 1 ton 2 cwt.

With a view to learning something further regarding this interesting discovery, a representative of The Register called on Saturday on Mr. Edgar R. Waite, Director of the Museum, who stated that the whale in question was first made known to science by certain fossilized remains which were found in the fens of Lincolnshire, and for a long time it was regarded as an extinct species, until, many years later, a whole herd was discovered stranded in the Baltic. This incident, of course, provided plenty of material for study, and when, at a later date, specimens came to light in Tasmania, it proved that the species was not confined to the Northern Hemisphere. As far as he was aware, this was the second big irruption that had been discovered. This false killer whale was known scientifically as *pseudorca crassidens*, as opposed to the true killer whale, or orca gladiator. The latter animal was found practically in all seas, and was frequently seen off the Australian coast when attacking the southern right whale, or *balaena Australis*. He had seen scores of small whales stranded off the Chatham Islands, about 400 miles to the east of New Zealand. They were known as black fish. The false killer whale was of no economic value, although it could be used as a fertilizer, but there was probably no means of dealing with them in the neighbourhood of the spot where they went ashore. It was not an uncommon thing for whales to strand themselves in large numbers; they probably did so when fighting.

"mating"



23. Wed.

Visit. Brit. Museum  
(mites) introduced by Prof.  
Harvey Johnston Mr Bur-  
goyne left after staying  
a fortnight.

24. Thurs.

Meeting 7 & 7. Board. 3.45  
and Council, Roy. Soc. 4.30.

25. Fri.

Received Scrip "~~Split from~~  
Twin Motor. Rim, Co. L<sup>2</sup>  
(See.

Attended meeting Zool. Soc.  
2.15.

26. Sat.

Discovered an error in  
Boulenger's characters of the  
Scincidae and wrote up  
for the handbook.



27. Sun.

wrote to Jor! W. Corby - \*.  
Leamington who sent me  
illustrations of fishes from  
"Illus. London News" and  
says that he is returning  
to Australia

28 Mon.

Letter from Development  
"Migration Commission  
my fares to & from Hobart  
(Jan. coincident with the  
meeting of A.A.A.S.) will  
be paid also allowance  
of £1. per day, travelling.

29 Tues

Sent 10/- to Kilburn Scott

---

\*. 1 Gipsy Cliffe Road.  
Leamington Spa. Warwickshire.



for copies of the Souvenir  
book. I lost the one  
received on the 11<sup>th</sup>, from  
motor cycle carrier.

30 Wed.

Sent £1. Subscription to  
A. A. A. S. Can travel  
to Hobart at the reduced  
rates. Received proofs of  
20 more blocks for the  
reptile handbook.

Overseas  
Woolgar, s., Fremantle (Monday).  
Baron Belhaven, s., Fremantle.  
Kaponga, s., Auckland (Thursday).  
Oranio, R.M.S., London (Thursday).  
Köln, s., Antwerp (Saturday).  
Oronsay, R.M.S., eastern States (Saturday).  
Mooltan, R.M.S., London (November 24).  
Bordasdale, s., London (November 26).

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**DR. TILLYARD**

who, it was stated in a telegram from Canberra today, has accepted the offer of the Commonwealth Government of £2,000 a year to take charge of entomological investigations.



December.

DECEMBER.				
Sunday	....	-	4	11 18 25
Monday	....	-	5	12 19 <b>26</b>
Tuesday	....	-	6	13 20 27
Wednesday	....	-	7	14 21 28
Thursday	..	1	8	15 22 29
Friday	.....	2	9	16 23 30
Saturday	..	3	10	17 24 31

1. Thurs.

Took 100 £1. Shares in  
Peaks Ltd & paid £12. 10. 0.  
deposit.

2. Fri.

Received proofs of further  
blocks 54 to date. Bought  
Rose a "Cool" Safe <sup>26</sup>/<sub>6</sub> and  
self, a second-hand air  
compressor and tank for  
£2. 10. 0.

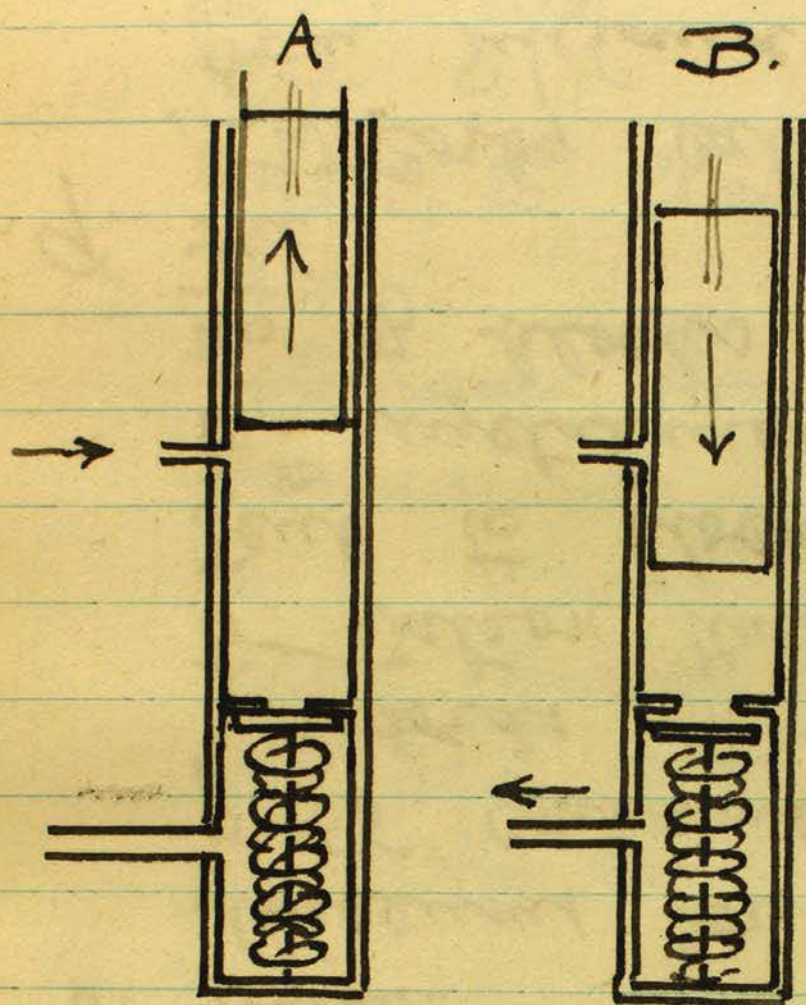
3 Sat

Letter from Wilfrid: he  
had visited Mr. Waiter, at  
Headingley. Overhauled the  
compressor (see 2<sup>nd</sup>) eased  
the bearing & ascertained  
how the pump operates.  
The suction stroke (A) is



assisted by a strong spring

which is compressed on the force stroke (B.). Air is retained in the tank by a mushroom valve



5 Mon.

Preparing a skull from which to draw aerodont dentition found that in Amphib. barbatus the front teeth are pleurodont.



6. Tues.

Meeting of the Anthropological Board.

7. Wed.

Museum Committee, I had 14 items on the agenda.

Arranged to leave for Hobart on Jan. 13<sup>th</sup>

8. Thurs.

"Museum Journal". Nov. p. 155. contains notice of "Records" III. 3. Wrote to Watson Union Bk. London sent to block makers the 6<sup>th</sup> instalment bringing no of blocks to 144.

9. Fri

J. W. Corby called on way from England to Sydney. I took him to lunch.



Viewed eclipse of moon  
at 3. am.

10 Sat.

Wrote to Claude, in reply-

12 Mon.

Telegram from Sec D.M.  
Commission to effect that  
he & chairman would  
leave Melb. for Hobart  
on Jan. 11<sup>th</sup>. Telephoned to  
my chairman, information.

14 Tues.

Attended annual gathering  
Anglers' Assn. was elected  
patron and presented some  
of the trophies won during  
the year. Though a hot  
night (99° in the day)  
about 80 were present.



15 Thurs.

Sent felicitations to Aust.  
Museum on occasion of the  
celebration of centenary on  
Dec 19<sup>th</sup>.

16 Fri.

Cashed my last £10. war  
bond which expired 15<sup>th</sup>.

Mr. E. R. Waite (director of the Adelaide Museum), who was present at the annual meeting of the South Australian Fish Protection and Anglers' Association at the Exchange Hotel, Hindley street, last night, was elected a life patron of the association. Mr. Waite presented to the association a copy of his well-known work, "The Fishes of South Australia." Members referred to the valuable assistance given by Mr. Waite in the identification of strange fish and in other ways.

17 Sat.

Booked passage Jan 11<sup>th</sup>  
Melbourne Hobart return  
£6. 10. 0. to leave Adel.  
Jan 10<sup>th</sup>. Sent telegram to



Claude 12 months married.

18 Sun.

After 5 days in which the max temp. ranged between 90 and 99 we got a change. Called on Mrs Gardner who is not well at new house Fullarton & at hospital Wakefield St to see Ran's daughter who has had a leg amputated (aged 22).

19. Mon.

Received reprints of papers on mammals. Reptiles & amphibians K. L. & sent abstracts to Walton.

20. Tues.

Sent £2 to Claude gave £6 to Rose for Xmas.



Sent copies of the official  
Xmas card to:—

Mrs Waite.

Philburn Scott.

Wilfrid.

21. Wed.

Took tickets as follows:—

Rose Jan. 5 Adel to Syd  
with 2 sleepers £8. 6. 3

Self. Adel. to Melb. - Jan. 10<sup>th</sup>.  
return concession

rates - return. 4. 13. 4

Melb to Hobart. 4. 0. 0

Sleep. A to Melb. 1-0. 0

Bought a large hand wheel  
7/6 for the compressor,  
pending arrangements for  
electrical drive.

22 Thurs

Wrote to Anderson for



loan of Snake-block.  
The number of illustrations for the book now stands at 189.

24 Sat.

Learned by wireless that temp. had reached  $103^{\circ}$ .

25 Sun Xmas Day.

Visited Mrs Young in hospital: it is feared that she has lost the sight of the second eye. Drilled and tapped hand wheel for a set screw.

26 Mon.

Holiday. Wrote to Mrs Kelsey re preparation of glossary for the book. She having expressed wish to compile it.



27. Tues.

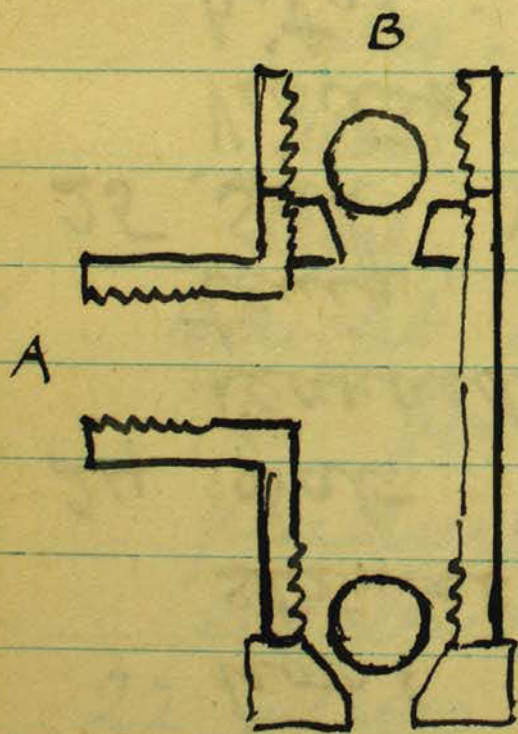
Holiday but went to town and took away some W.S. for revision -

28. Wed.

Wrote to Melbourne Zoo for name of lizard that had received 12,500 volts and recovered -

29. Thurs.

On duty. Made a valve for the compressor which loses air on the suction stroke. Used a  $\frac{1}{2}$ " T. piece, bearing balls & cycle cones, of 2 sizes.



A from engine, B to pressure tank -




30. Fri.

Again on duty. bought  
new suit + under pants.  
and water piping etc.  
for 'Cool safe'.

31 Sat.

Fitted water piping and  
tap for regulating supply  
to cool safe.





1928

January.

1. Sun.

Went to Payneham & we  
had tea with Mr & Mrs  
Foster.

2. Mon.

Holiday. wrote

3. Tues.

Resumed regular work.  
Paid wireless license 24/-  
received from 27/6. Letter  
from Kilburn Scott and  
from Mr Waite who sent  
£1. for Connie. Following  
Advt appears:—

Advt.



4. Wed.

Drew £100 for Rose's holiday  
in Sydney. packed at night.  
Delivered 1<sup>st</sup> instalment of  
Reptile book to printers.

5. Thurs.

Saw Rose off at 4.30.

Mrs. Edgar R. Waite will leave by the  
express today for Melbourne and Sydney.  
She will stay with her son in Melbourne.  
Mrs. Albion M. Waite is a passenger for

Mr. Edgar R. Waite (Director of the  
South Australian Museum) will be one of  
the South Australian delegates at the  
meetings of the Australian Association for  
the Advancement of Science at Hobart,  
from January 16 to 23. He will represent  
the Anthropological Society of South Aus-  
tralia. In addition Mr. Waite will be  
present at a special meeting of a commit-  
tee of the Development and Migration  
Commission, appointed to consider the de-  
sirableness of inaugurating a biological  
institute in Australia. He will leave by the  
express on Tuesday.







**End  
of  
Notebook**



AMS 587/72

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