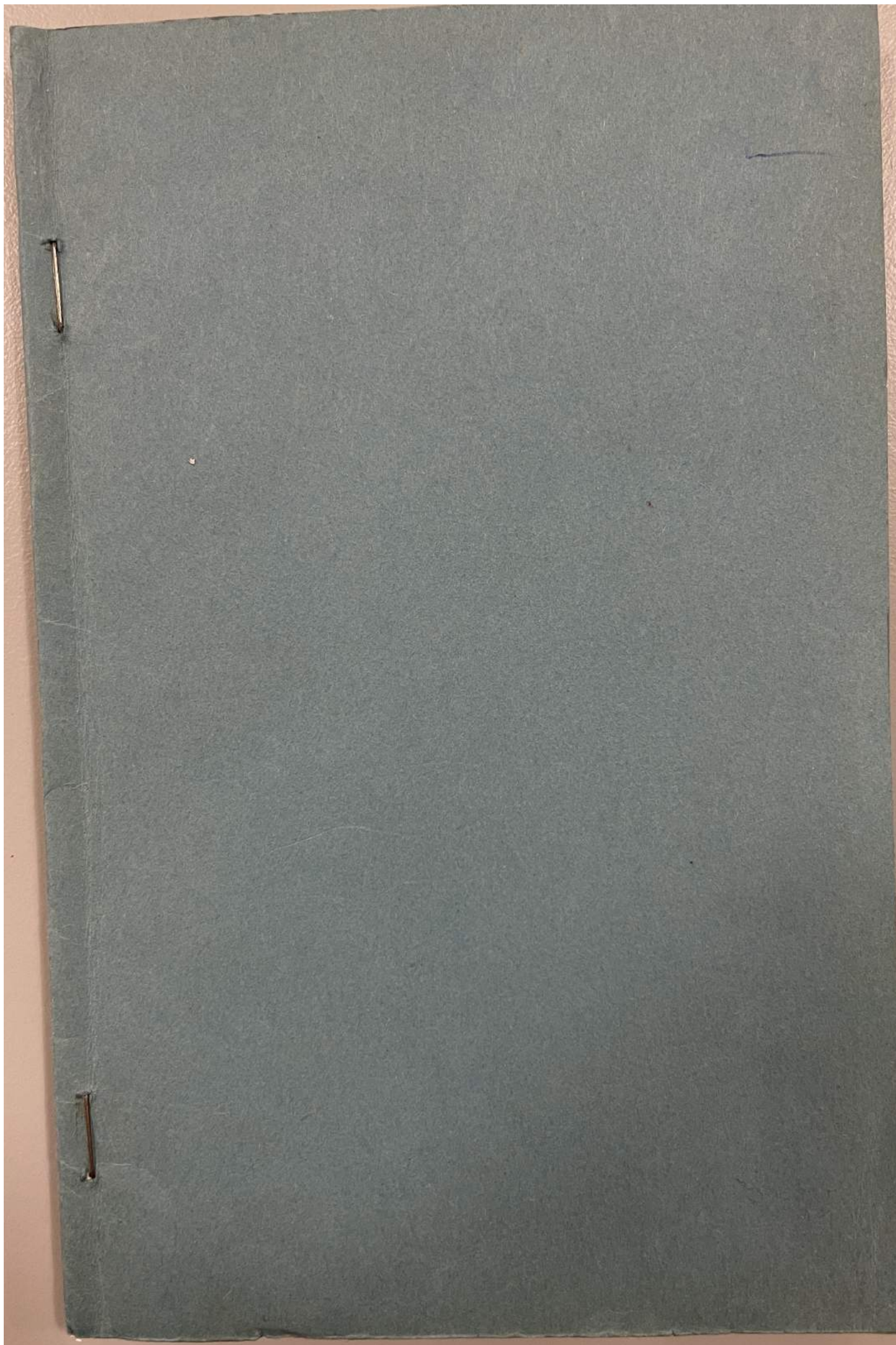




Catalogue of  
Mineral  
Microscopic sections etc.

J. Jol

June 22<sup>nd</sup> 1886



Altered Berge from  
Jensenellon.

Proc. N.D.S. Vol V P 48...

Slide

1. Parallel to face of worn - altered  
berge - Specimen to match in  
Berge draw. grav. 2.57

2. Section parallel to base. Spec.  
to match.

In these I first found Dolite.  
The second section was cut to  
determine what was Berge & what  
Felspar.

3. Basal section of altered Berge - nearly  
all berge.

4-5. Basal sections close to bases of  
two crystals. See specimen and  
paper. These comprise hypothesis  
about Berge alteration - 5. is illustrated  
in N.D.S. Proc.

Slide

6. section of fine curite-garnite with  
red dust of garnet-crystals. spec.
7. Section of garnite contain; radiation;  
beryls.
8. Basal sect. of a yellow beryl with  
Tourmaline
9. 10. Basal & prism sects of green beryl.  
- For gravity & sp. heat see paper  
on the 'sp. Heats of Minerals'
11. Section of radiation; green beryl - parallel  
to radii.
12. Sorted Dolite from Beryl cavities
13. 13, 13, 13. Slides of Dolite from Beryl  
Cavities (in spec 3' type)
14. 14. 14. 14. 14. 14. From crushed altered Beryl  
(type spec 4')
15. 15. Dolite - from cavities.

Beryl Draw. Right. 4.

All The Beryls and Kavalin in  
This draw from Glencairn.

~~{ Except the one from Killiney  
(Kingsdown Pier, really). }~~

They show radiating beryls - first described  
by me - and the parallel prisms in  
all stages of alteration.

The larger Glencairn Minerals are in  
Draw 12. Middle.

Together with Ballyhetagh Beryl - described  
in paper - and Ballyhetagh plumose  
Mica and Quartz.

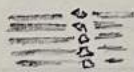
Also Crystals of Orthoclase (Ballyhetagh)

Bray Head Slate D. R. 11

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31. 6.-86 is date of finding.

This slate was found just south of lodge at gate halfway round the ~~path~~ head, & just above the path. It was lying amidst debris. If the marks be closely examined they do not appear as if due to scratch. Marks too regular & up sides of hollow.



Other similar, but fainter, marks occur over surface.

This spec. was lost. (Aug-87)

~~The other slates are Antiquia & Radiata~~  
~~(Oldhamia)~~

D. R. 10. Oldhamia.

Observe that in all cases the *Antigua*  
and *radiata* are differently impressed  
- the one raised, the other depressed.

Observations at Merrimacke Rocks  
showed that rule was for *radiata*  
to be a hollow, depressed, in the  
upper surface of the bed. The  
~~radi~~ *antigua* raised on the  
same surface. This would go to  
show that the *radiata* was  
something in the nature of a fleeting  
mark - as just. The *antigua*  
a solid object decaying after  
it made its impress on the  
layer deposited upon it. It remains  
to see if this rule holds elsewhere  
- as at Howth & elsewhere on the  
Heath.

Middle Draw 11.

Contains Minerals whose specific  
Heats have been found by  
Method of condensation. Their  
specific gravities are also recorded.  
Others taken in the same paper  
are in Min. Museum. T. C. D

Method used that of Condensation.  
The Nos. on the specimens refer  
to books of Experiments & List.

D. R. 11.

New fossils . Bray Head.

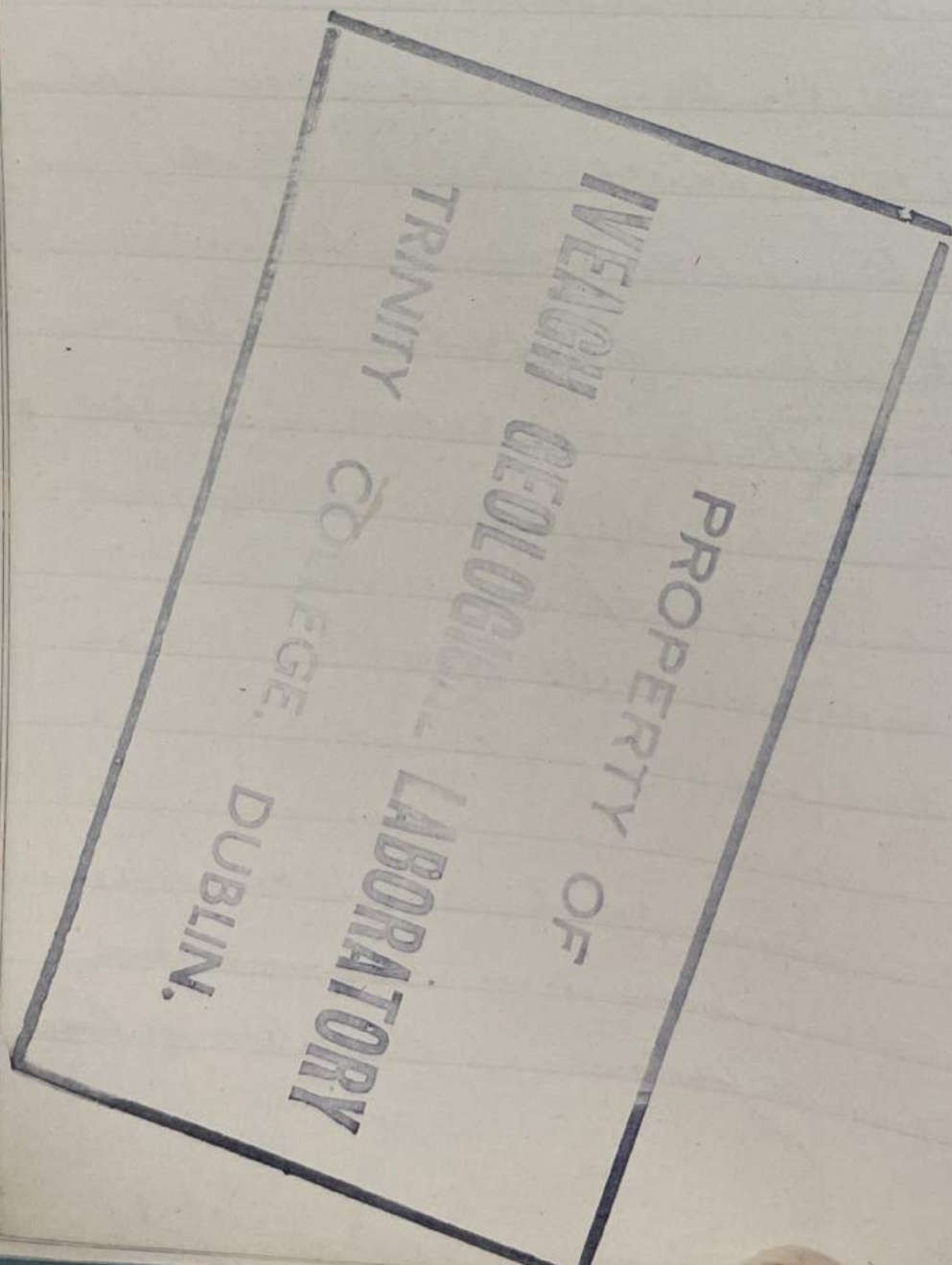
Coral ?

22.8.86. is date of finding  
first piece. In situ - above  
periwinkle rocks. Most of the  
rock (bed) is wanting. It crops  
out on cutting above - but Coral  
there is indistinct. Marks hardly  
admit of physical explanation.

30.8.86. wave-worn piece, picked  
up just round corner of projecting  
rock south of fent's bath. Evidently  
piece of reef. 3 faces cut.  
Shows tubes right-through: some  
as if hollow. Given to Sedant Museum

Oct. 86 This fossil has been already  
described by Huxham <sup>Journ. R. Geol. Soc. Ireland</sup> ~~Trans. R. I. A.~~  
Vol 8. 1859. He names it *Haughtoni Porcella*

and declares it to be <sup>due to</sup> an aggregation  
of tubes of a gregarious animal  
allied to Sabella. This is doubted  
in the Memoir of the geol. Survey. 121.  
P. 20.



Apatite . glencree boulders  
Found by Francis Dixon . Sept-86

Small greenish - bluish . Hex. prisms .  
roughly terminated .

Sol in H<sub>2</sub>O slow . w.p. on adding H<sub>2</sub>SO<sub>4</sub>  
(CaSO<sub>4</sub>.)

B. P. pale greenish blue flame  
& bare fusible .

Sp. G by Method of Paraffin

~~25~~ 3.03 } 3.033  
                  } 3.027

Dana gives

2.92 - 3.25

It falls to bottom of Thule's sol. when  
berg floats free .

Is easily scratched by penknife .

Later got a large tin of dust  
from this vessel. ~~It is now in~~  
~~large glass bottle.~~ Most of  
my microscopical work is done on this  
ash - see box of slides.

Pumice & Dust  
From K'rah'atua

See Proc N.D.S. Vol. IV. 291.

From the Borjild (Norway - Capt. Amundsen)

I first received ash thro. W. Hogg.

Later I procured a piece of the  
floating Pumice from the Borjild.

Her position during dust fall was 75 miles

N.E. of K'rah'atua.

From the Venezuela (Capt. McLean)

I later received much pumice

~~and dust - the dust~~. Capt. McLean

just entered the floating pumice  
in Lat 6.43. S. Long East. 104.15 dead

reckoning. And sailed through 200

miles of it, he stated.

From the Niohe (Capt. Balston)

Pumice

From the Mei Kapioti. Dust which  
fell at Batavia & Pumice picked