TELEPHONE No. 3070.
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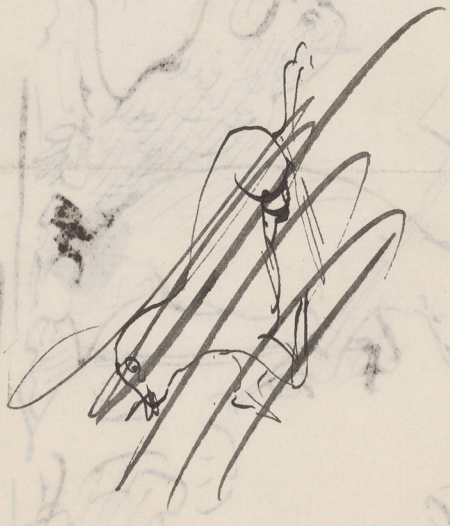
Westminster Palace Hotel,
Victoria Street,
London, S.W.

High seas

The Seal is essentially a land animal — a product of U.S.



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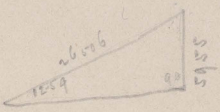

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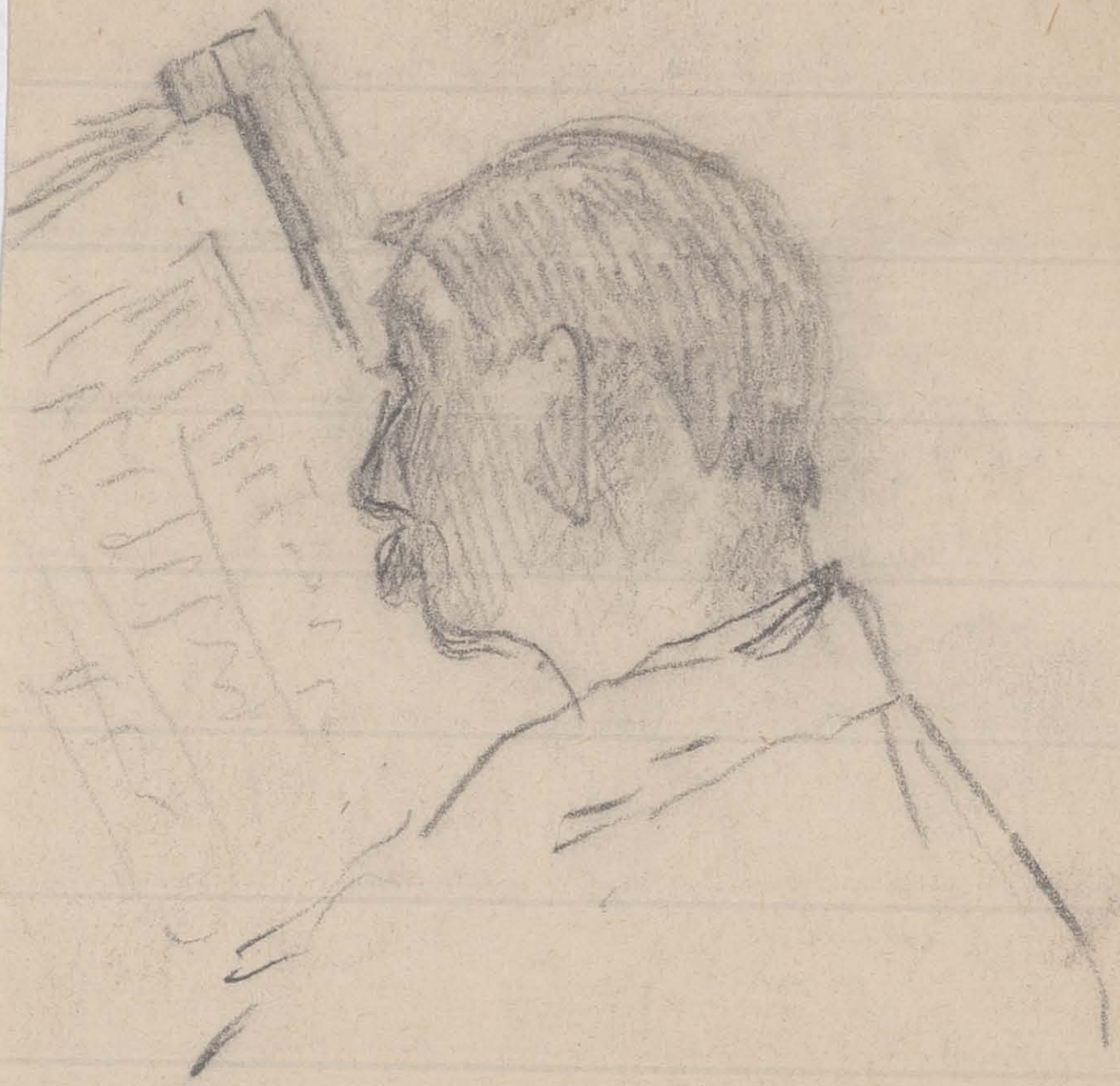

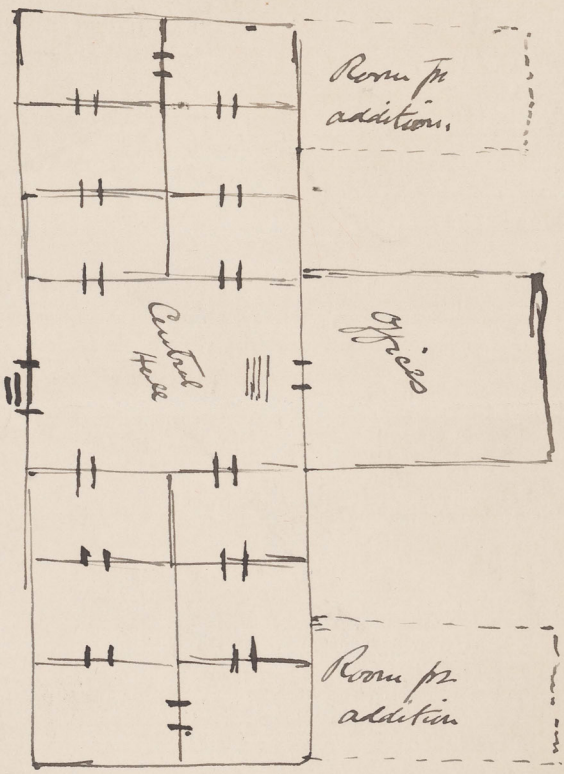
Room for addition.
Central Hall
Office
Room for addition

Rideau Club,
Ottawa.

Bigsby Medal p. 57.

ABSTRACTS OF THE PROCEEDINGS

OF THE

GEOLOGICAL SOCIETY OF LONDON.

No. 568.] [Session 1890–91.

Annual General Meeting.

February 20, 1891.—Dr. A. Geikie, F.R.S., President, in the Chair.

The Secretaries read the Reports of the Council and of the Library and Museum Committee for the year 1890. In the former the Council once more congratulated the Fellows upon the continued prosperity of the Society, as evinced by its increasing number and by the satisfactory condition of its finances.

The number of Fellows elected during the year was 76, of whom 56 qualified before the end of the year, together with 16 previously elected Fellows, and these, with one Fellow readmitted, made a total accession of 73 Fellows during 1890. As, however, from this number a deduction of 43 was made for losses by death, resignation, and removal, and for new Fellows compounding, the actual increase in the number of Contributing Fellows was 30. The total number of Fellows, Foreign Members, and Foreign Correspondents at the close of the year 1890 was 1405.

The Balance-sheet for the year 1890 showed receipts to the amount of £3034 8*s.* 1*d.*, and an expenditure of £2429 16*s.* 2*d.* Further, a sum of £420 10*s.* was expended in the purchase of stock, and the balance in favour of the Society at December 31, 1890, amounted to £433 17*s.* 6*d.*

The Council's Report also referred to the publication of the late Mr. Ormerod's Third Supplement to his Index to the Publications of the Society, to the editing of Nos. 183 and 184 of the Journal by Prof. T. Rupert Jones, to the deaths of the late Foreign Secretary and the late Assistant-Secretary, and in conclusion enumerated the awards of the various Medals and proceeds of Donation-Funds in the gift of the Society.

The Report of the Library and Museum Committee included a list of the additions made during the past year to the Society's Library, and announced the completion of the glazing of the Inner Museum.

In presenting the Wollaston Medal to Prof. J. W. Judd, F.R.S., the President addressed him as follows:—

Professor Judd,—

The Council have awarded to you the Wollaston Medal in recognition of the important services rendered by you to Geological science, especially in the department of Petrography. In recalling for a moment the value and extent of these services, I am reminded that, after showing your powers by an excellent paper on the strata of the Lincolnshire Wolds, you began your geological career in the Geological Survey under Murchison, and that you had thus a favourable opportunity of acquiring that practical acquaintance with the details of geological structure which can in no way be so thoroughly mastered as by actual patient mapping. Your volume on the 'Geology of Rutland' proved how well you had profited by the advantages which your official duties afforded you. From the Jurassic rocks of England, which you had studied in minute detail, you were led to undertake the investigation of those of Scotland, which you succeeded in reducing to order, bringing them into closer relationship with their equivalents in the southern part of the United Kingdom.

It was in the course of those northern expeditions that you were drawn from the field of stratigraphy into the study of volcanic rocks, to which you have since devoted so large a part of your time and thought, and in the study of which you have journeyed far and wide in this country, and have extended your travels to the islands of the Mediterranean. The problems presented by these rocks in the field led you to seek the aid of the microscope, and to enter upon a course of distinguished petrographical research. I trust that the award of this Medal will be received by you as a mark of the estimation in which your work is held by the Society in whose Quarterly Journal most of it has been published.

Prof. Judd, in reply, said:—

Mr. President,—

It is a source of legitimate gratification to the student of science, when a favourable judgment on his efforts is pronounced by his contemporaries and fellow-workers. In receiving this highly-prized mark of your approval, I would fain forget for one moment, if that were possible, how far the work—of which you have spoken in such graceful terms—falls in amount below my hopeful anticipations of the past, how it fails to reach the standard of excellence of my

cherished ideals. Any value which that work may be found to possess is undoubtedly due, in great part, to the fostering care of the Society which to-day so generously crowns my labours. To the Geological Society, in its corporate capacity, I am indebted for the reception and publication of the results of my studies; to individuals composing that Society I owe more than I can ever express, for kind sympathy, warm encouragement, and friendly aid; and to both Council and members I shall always be deeply grateful alike for helpful suggestion and discriminating criticism.

In handing the Murchison Medal, awarded to Professor W. C. Brögger, of Christiania, to J. J. H. Teall, Esq., M.A., F.R.S., for transmission to the recipient, the President spoke as follows:—

Mr. Teall,—

The Council has awarded the Murchison Medal to Professor W. C. Brögger, of Christiania, and in asking you to transmit it to him I will request you also to convey to him an expression of the high estimation in which we hold his researches among the older rocks of Scandinavia. He is remarkable among the geologists of Europe for the great range of his acquirements. If we were to read only his descriptions of the Silurian fauna of Southern Norway we should, doubtless, believe him to be essentially a palæontologist. If we looked over his maps and sections of the Christiania district, we should think of him rather as an admirable stratigrapher and cartographer. If, again, we began with his account of the eruptive rocks and their zone of contact-metamorphism, we should conclude that his chief studies must have lain in microscopic and chemical petrography, of which he is so accomplished a master. Or, lastly, if we knew him only by such essays as his late paper on garnets, we should regard him as preeminently a mineralogist, gifted with rare originality. He has swept a full chord on the geological lyre, and every note sounds rich and true.

It gives me personally an especial pleasure to be the intermediary in conveying the award of the Council, for I have had the advantage of being conducted by Professor Brögger over some of his classic ground around Christiania, and I know from my own experience how accurate and exhaustive is the work; how courteous, genial, and helpful the man. He will, I trust, receive this Medal, bearing the likeness and the name of one of the great masters of British Geology, who was also a pioneer in the geology of Norway, as a pledge of our esteem and sympathy with him in the great work he has already accomplished, and in the long and brilliant career which we hope is still in store for him.

Mr. Teall, in reply, read the following communication received by him from Prof. Brögger:—

"I beg to express my hearty gratitude for the great and com-

pletely unexpected honour conferred upon me by the Council of the Geological Society in the award of the Murchison Medal.

"The Founder of this medal, almost half a century ago, classified the Silurian rocks of the Christiania district, and pointed out their relations to the corresponding strata of Great Britain; so that, if the subsequent investigations of Norwegian geologists have furnished results of interest to the students of British Geology, this is only a slight repayment of an old debt.

In ancient times the mountain-ranges of northern Great Britain and Norway were probably connected and, in the Quaternary period, the Scandinavian ice-sheet stretched across to England and deposited boulders of Norwegian rocks, some of which were derived from the Christiania district. Now, in recent times science has rebuilt the bridges which formerly connected the two countries, inhabited by closely related peoples of the Germanic race.

"It will be an object of special interest to me to contribute, as far as I am able, to the reconstruction of bonds of union between Great Britain and Norway, in grateful remembrance of the benefits which Norwegian geologists in general, and I myself in particular, have derived from the celebrated Geological Society of London.

"Allow me, in conclusion, to express the great satisfaction I feel at receiving this honour during the Presidency of so eminent a geologist as Dr. Archibald Geikie, who is personally acquainted with the geology of Norway."

The President then presented the Lyell Medal to Prof. T. McKenny Hughes, F.R.S., addressing him as follows:—

Professor Hughes,—

The Lyell Medal has this year been adjudged by the Council to you in appreciation of the value of your investigations in various departments of Geology, especially among the older rocks. Your researches in Caernarvonshire and Anglesey formed the starting-point of those later enquiries which have done so much to clear up the earlier chapters of the geological history of Wales. You have not confined yourself, however, to the rocks of any one system or period, but have ranged freely from Archæan gneiss to raised beach, hovering for a moment here and resting a little there, generally critical, almost always suggestive, and with that happy faculty of enthusiasm which, reacting on younger minds, "allures to older worlds, and leads the way."

As I place this Medal in your hands I cannot but recall the days of our early friendship, now faded so far into the dim past of life, when, as colleagues in the Geological Survey, we used to attend the meetings of this Society in Somerset House, taking seats on a back row and gazing down upon the magnates of the science seated beneath. Little did either of us dream that the whirligig of time would eventually place us where we find ourselves to-day. It is thus no small gratification to me to be called upon to present to you

this Medal, which will not only serve to mark the Society's appreciation of your work, but which will connect you by another link with the memory of our friend and master, Lyell.

Prof. Hughes, in reply, said :—

Mr. President,—

I feel that I have, as the senior, been selected to receive this high recognition of the work being carried on by the Cambridge School of Geology. I have not myself been able to offer much to the Society of late, save occasional criticism, but my colleagues, Mr. Marr and Mr. Harker, Fellows of the Society, whose opinions are regarded each year with increasing respect, the one your Secretary, the other on your Council, have from time to time contributed valuable papers, while my other colleague, Mr. Roberts, has also laid before the Society the results of important original observations made by him. The Society knows that it is chiefly to the lecture-room, the museum, and the field-classes that it must look for men to carry on its work in the future. But I must acknowledge in this respect also, that the heaviest work has fallen upon my colleagues. They know, however, that in the administration of the Department, and directly and indirectly in promoting the cause of Science, I help as far as I can. We all work well together, and I feel that they will rejoice with me now, will help to carry back the Lyell Medal in triumph to Cambridge, and will join with me in offering to the Society our warmest thanks for the honour that has been done us. We shall regard it as a stimulus to follow in the steps of the great teacher whose name is commemorated on the Medal, and try always to distinguish clearly between what is proved, what is disproved, and what remains, however plausible, "not proven."

I am glad that it has fallen to my lot to receive this honour from the hands of an old and valued friend, upon whom has fallen the mantle of Lyell, a mantle in which the warp of science and the weft of literature are so deftly interwoven.

The President then handed the Bigsby Medal, awarded to Dr. G. M. Dawson, F.G.S., of Ottawa, to Dr. Hicks, F.R.S., for transmission to the recipient, and addressed him as follows :—

Dr. Hicks,—

In asking you to transmit the Bigsby Medal to Dr. George M. Dawson, I request you to convey to him at the same time an assurance of how fully the Council appreciates the value of his researches into the geological structure of Canada, and how cordially we hope that he may live long to prosecute the explorations which have shed so much lustre on the Geological Survey of his native country.

Dr. Hicks, in reply, read the following communication, received by him from Dr. Dawson :—

"Mr. President,—

"I have to express my high appreciation of the honour which you and the Council of the Geological Society have conferred upon me in the award of the Bigsby Medal.

"I regret that my official duties at the present time render it impossible for me to be present in person at the Anniversary Meeting to assure the Society of the high esteem in which I hold this mark of recognition.

"My field of geological work has lain chiefly in the further Western, and as yet imperfectly known, portions of the Dominion of Canada, and much of the work itself has been of an exploratory character, and only occasionally, and then to a limited extent, precise or finished. Work of this class, though necessary in the first instance, and possessed of the special interest attaching to any virgin field, must suffer by comparison with that obtained in the investigation of smaller areas, and carried on under more favourable conditions. It is thus all the more gratifying and encouraging to me that such results as I may have been able to obtain should be deemed worthy of the recognition of the Society.

"I may be pardoned for alluding to the fact that some of the earliest work in Canadian Geology is due to the personal efforts of the distinguished Founder of this Medal, in whose very footsteps it has at times been my privilege to follow. This, with the pleasant remembrance of advantages derived in former years from personal intercourse with Dr. Bigsby, and kindly advice received from him, tend to enhance, if possible, the sense of gratification felt by me in learning that my name has been added to the roll of those considered worthy to receive the Bigsby Medal."

In presenting the Balance of the Wollaston Fund to Richard Lydekker, Esq., B.A., F.G.S., the President said:—

Mr. Lydekker,—

The Council has awarded to you the proceeds of the Wollaston Donation Fund in recognition of the value of your numerous contributions to Vertebrate Palæontology. We trust that you will continue these investigations and that, whether they appear in the publications of this Society or elsewhere, the results, like those which have preceded them, may tend to the steady advancement of our favourite science.

Mr. Lydekker, in reply, said:—

Mr. President,—

The particular branch of Palæontology to which my own studies have been more especially directed is one which, from its nature, is so beset with difficulties that it is very apt to lead to misgivings as to whether any real good results from its pursuit. The assurance conveyed by the honour that the Council of the Society has con-

ferred upon me, that such work as I have been able to do is not unappreciated, is therefore very gratifying.

Although circumstances have rendered it almost imperative that I should devote my time to literary work rather than to original scientific research, yet I still hope to do something in the latter field.

Please accept, Sir, on the behalf of the Council, my thanks for the mark of distinction that they have bestowed upon me.

In handing the Balance of the Murchison Geological Fund (awarded to the Rev. Richard Baron, F.L.S., F.G.S., of Antananarivo) to Wm. Topley, Esq., F.R.S., for transmission to the recipient, the President said:—

Mr. Topley,—

I have to request you to transmit to the Rev. R. Baron the Balance of the proceeds of the Murchison Geological Fund, in testimony of the interest taken by the Council in the geological work which, amid so many discouragements, he is carrying on in Madagascar. We desire him to accept this Award as a mark of our hearty sympathy and of our wish to aid him in his researches.

Mr. Topley, in reply, said:—

Mr. President,—

On behalf of Mr. Baron, who is now in Madagascar, I beg to thank the Council and yourself for the honour conferred upon him in the award of the Murchison Fund. As a Missionary in an area as yet but little known, Mr. Baron has exceptional opportunities for original research, and that he has not neglected those opportunities is evident from his papers already read to this Society and to the Linnean Society. The Award now made will, I am sure, be an incentive to further work in a most promising field of research.

The President then handed one half of the Balance of the Lyell Geological Fund, awarded to Dr. C. J. Forsyth-Major, of Florence, to Dr. H. Woodward, F.R.S., for transmission to the recipient, and addressed him as follows:—

Dr. Woodward,—

In requesting you to transmit to Dr. Forsyth-Major one moiety of the Balance of the Lyell Geological Fund, I wish to express the Council's appreciation of his researches and its hope that he will continue them. He has done much to increase our knowledge of the Pliocene Mammalia of the Val d'Arno, and he has recently extended his explorations among the younger Tertiary deposits of the Eastern Mediterranean.

Dr. Woodward, in reply, said :—

Mr. President,—

On behalf of Dr. C. J. Forsyth-Major, I have to acknowledge the honour conferred upon him by the Council of this Society in awarding him a moiety of the Lyell Fund. The work to which Dr. Forsyth-Major has devoted hi s life so entirely accords with the researches and labours of Sir Charles Lyell that I cannot doubt the appropriateness of this Award.

Dr. Forsyth-Major has devoted many years to the elucidation of the Pleistocene and Pliocene mammalian faunas of the Val d'Arno and Northern Italy, and his numerous memoirs attest the value and accuracy of his work. Lately he has devoted two years to the exploration of the Pliocene fauna of the Island of Samos, and has obtained thence two very important collections (at present only partially examined)—one now in the Geneva Museum, the other in the British Museum (Natural History), Cromwell Road. Among these are a large number of forms specifically identical with the mammals from the equivalent deposits of Pikermi in Attica, Baltavar in Hungary, and Maragha in Persia ; and also several new types of much interest as showing a former wider distribution for existing forms.

It is Dr. Forsyth-Major's hope to spend the early summer months in London, to complete his descriptions of these fossil remains, which your Award will doubtless assist him in doing.

He writes as follows :—

"Would you kindly transmit to the President and Council of the Geological Society my grateful acknowledgments of the honour conferred upon me, which I value so much the more as coming from a scientific body of my own country, to which, owing to the fact that my family resides abroad, I have become nearly a stranger.

"If I rightly understand the intention of the Council, this Award is given less as a mark of their approval of what I have already done than as an incentive to future labours.

"In my palæontological work I have striven to follow the example of one of the masters of our science, the late Dr. Hugh Falconer, devoting myself more to the collecting of facts and observations than to their speedy publication. This reserve seems to be imposed upon us even more in our day than in that of Dr. Falconer's."

In presenting the other half of the Balance of the Lyell Geological Fund to G. W. Lamplugh, Esq., F.G.S., the President addressed him as follows :—

Mr. Lamplugh,—

The Council, in awarding to you one half of the proceeds of the Lyell Geological Fund, desires to assure you of the estimation in

which it holds your work, and of the pleasure it will derive from their further prosecution. Your researches among the Glacial deposits of Yorkshire have been followed with much interest, and we have rejoiced in the enthusiasm which not only carried you through these labours at home, but which impelled you to seek the solution of some of your difficulties by journeying to the far distant shores of British Columbia. Your investigation of the Speeton Clay affords a striking example of how our knowledge may be corrected and extended by the patient labours of an observer resident on the spot which he has to examine. I hope you will accept this Award with the best wishes of the Council and of the Society.

Mr. Lamplugh, in reply, said:—

Mr. President,—

That I should have been selected by the Council to receive this Award affords me the greatest encouragement, since it comes to me as a token that my geological work, in spite of its narrow and local character, has after all a certain value.

It is scarcely possible that anyone who has any sympathy whatever with nature should spend much time on the Yorkshire coast without becoming more or less of a geologist, and for my own part I drifted almost unconsciously into these studies in my boyhood, and have ever since found therein my happiest and healthiest recreation. My pleasure in them is now redoubled by this proof that the time so happily spent has also been spent usefully.

I thank you, and hope that, as a coastguard in the service of science, I may still occasionally be able to send to head-quarters reports which may contain some items of interest.

The President proceeded to read his Anniversary Address, in which he first gave Obituary Notices of several Fellows, Foreign Members, and Foreign Correspondents deceased since the last Annual Meeting, including the late Foreign Secretary, Sir Warington W. Smyth, the late Assistant-Secretary, Mr. W. S. Dallas, M. Edmond Hébert and M. Alphonse Favre (Foreign Members, both elected in 1874), Mr. Wm. Davies, Mr. Robert Wm. Mylne, Mr. Samuel Beckles, Dr. H. B. Brady, Mr. Samuel Adamson, and Prof. Antonio Stoppani (Foreign Correspondent, elected in 1889).

He then dealt with the history of volcanic action in Britain during the earlier ages of geological time. He proposed to confine the term "Archæan" to the most ancient gneisses and their accompaniments, and showed that these rocks, so far as we know them in this country, are essentially of eruptive origin, though no trace has yet been found of the original discharge of any portion of them at the surface. Passing to the younger crystalline schists, which he classes under the term "Dalradian," he pointed to the evidence of included volcanic products in them

throughout the Central Highlands of Scotland and the North of Ireland. The Uriconian series of Dr. Callaway he regarded as a volcanic group, probably much older than the recognized fossiliferous Cambrian rocks of this country. The Cambrian system he showed to be eminently marked by contemporaneous volcanic materials, and he discussed at some length the so-called pre-Cambrian rocks of North Wales. He reviewed the successive phases of eruptivity during the Arenig and Bala periods, and described the extraordinary group of volcanoes in northern Anglesey during the latter time. The volcanoes of the Lake District were next treated of, and reference was made to the recent discovery by the Geological Survey that an important volcanic group underlies most of the visible Lower-Silurian rocks in the South of Scotland. The last portion of the Address was devoted to an account of the volcanoes of Silurian time in Ireland, and it was shown that during the Bala period a chain of submarine volcanic vents existed along the east of Ireland from County Down to beyond the shores of Waterford; while in Upper-Silurian time there were at least two active centres of eruption in the extreme west of Kerry and in Mayo.

The Ballot for the Council and Officers was taken, and the following were duly elected for the ensuing year:—*Council*: Prof. J. F. Blake, M.A.; W. T. Blanford, LL.D., F.R.S.; Prof. T. G. Bonney, D.Sc., LL.D., F.R.S.; James Carter, Esq.; James W. Davis, Esq., F.L.S., F.S.A.; John Evans, D.C.L., LL.D., F.R.S.; L. Fletcher, Esq., M.A., F.R.S.; C. Le Neve Foster, D.Sc., B.A.; A. Geikie, LL.D., F.R.S.; A. Harker, Esq., M.A.; J. C. Hawkshaw, Esq., M.A.; H. Hicks, M.D., F.R.S.; G. J. Hinde, Ph.D.; W. H. Hudleston, Esq., M.A., F.R.S.; Prof. T. McKenny Hughes, M.A., F.R.S.; J. W. Hulke, Esq., F.R.S.; J. E. Marr, Esq., M.A.; H. W. Monckton, Esq.; F. W. Rudler, Esq.; J. J. H. Teall, Esq., M.A., F.R.S.; W. Topley, Esq., F.R.S.; Prof. T. Wiltshire, M.A., F.L.S.; H. Woodward, LL.D., F.R.S.

Officers:—*President*: A. Geikie, LL.D., F.R.S. *Vice-Presidents*: W. T. Blanford, LL.D., F.R.S.; Prof. T. G. Bonney, D.Sc., LL.D., F.R.S.; L. Fletcher, Esq., M.A., F.R.S.; W. H. Hudleston, Esq., M.A., F.R.S. *Secretaries*: H. Hicks, M.D., F.R.S.; J. E. Marr, Esq., M.A. *Foreign Secretary*: J. W. Hulke, Esq., F.R.S. *Treasurer*: Prof. T. Wiltshire, M.A., F.L.S.

The thanks of the Fellows were unanimously voted to the retiring Members of Council: Prof. A. H. Green, Rev. Edwin Hill, Major-Gen. C. A. McMahon, E. T. Newton, Esq., and Rev. G. F. Whidborne.

Letters from
Celebrated
People

Letter from
Theodore
Roosevelt

All relating to Honours - either elections to Societies degrees - etc - or congratulations upon these - some from very distinguished people

On Her Britannic Majesty's Service.

Dr Dawson's
Unpaid bill

Behring Sea Arbitration.

THE KINGSTON NEWS

DNESDAY. APRIL 30, 1860

THE KINGSTON NEWS

O'REILLY & HENEY

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per J. S. M.

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WHAT shall I wish thee? treasures of earth?
Songs in the springtime, pleasure and mirth?
Flowers on thy pathway, skies ever clear?—
Would this ensure thee a Happy New Year'

What shall I wish thee? what can be found
Bringing thee sunshine all the year round?
Where is the treasure, lasting and dear,
That shall ensure thee a Happy New Year?

Faith that increaseth, walking in light;
Hope that aboundeth, happy and bright;
Love that is perfect, casting out fear;
These will ensure thee a Happy New Year.

Peace in the Saviour, rest at His feet,
Smile of His countenance, radiant and sweet,
Joy in His presence! Christ ever near!
This will ensure thee a Happy New Year.

FRANCES RIDLEY HAVERGAL.

"THOU WILT SHOW ME THE PATH OF LIFE; IN THY PRESENCE IS FULNESS OF JOY; AT THY RIGHT HAND THERE ARE PLEASURES FOR EVERMORE."—Psalm xvi. 2.

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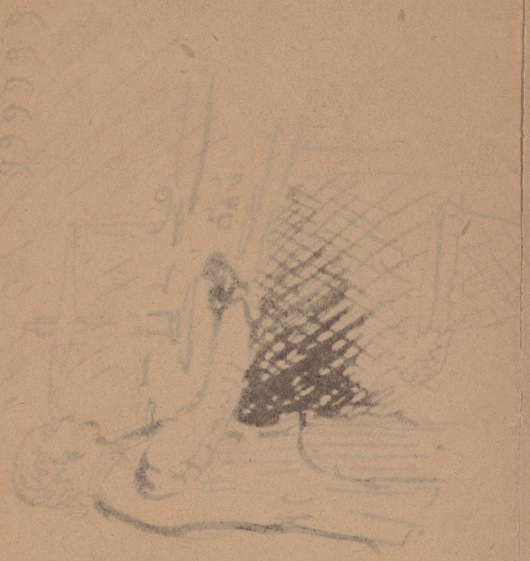

ᒥᓇᑕᐟᐃ ᐅ ᐊᐸᑕᑦ ᑭᒧᐅᓐᑎ ᑎ ᑲᑭᐅᓐᐳ ᒥᑕᓐᑐ ᐸᓇᑲᓐᑐ ᒧᓇᑐᓇᐅᓐᑦ:

ᐃᓐᔭ ᑲ ᑎᐯᐳᑕᑦ ᐅᒪ ᐊᓇᑭᐩ ᐅᑯᓕ ᐅ ᒥ ᒥᐸᓕᑭᒥᑦ, ᐅᒥᓕ ᐃᑕᓕᐅᓐᑐ:

1. ᑭᒪ ᕿᑲᓐᐩ ᐱᑐᑲᐟᐊᑦ, ᐊᓐᑎᑲᑦ, ᐊᓐᑎ ᑲᑎᑲᑦ ᑭᑕ ᑭᐟ ᐊᐸᑎᑕᑎᐃᓐᑐ ᑎ ᑲᓇᑭᐟᐃᑕᓐᑐ ᐸᓇᑲᓐ ᒧᓇᑐᓇᐅᓐᑦ. ᑭᒪᐃᓐᔭ ᑭᑕ ᑭᐟ ᐱᒥᑎᓴᐟᐊᓐ ᐅᓐᑦ ᓴᐱᑦ ᐊᐳ ᓴᑲᐟᐃᑲᑎᑦ. ᑭᒪᐃᓐᔭ ᑭᑕ ᑭᐟ ᑎᑎᑲᓐᑯᓕᒪᐅᓐᑦ ᐃᑐ ᑲ ᑲᓇᑲᑕᐊᓐᑲᐳᑦ ᑎ ᑎ ᐸᐟᐃᓕᑕᓐᑐ.

2. ᑭᒪ ᐃᓐᑲ- ᐊᐃᓐᔭᑦ ᑭᑕ ᑭᐟ ᑭᐊᓐᑎ ᐊᓐᑐᑦ ᐸᓇᑲᓐ ᒧᓇᑐᓇᐊᓐ ᑯᐳᑕ ᑎ ᑎᐸᐟᐊᑦ; ᒥᑐᔭᑎᐩ ᐸᑦᕿᑭᐳ, ᐊᐳ ᐊᐱᓕᓇ ᐃᓐᔭᓇ ᐱᑯ ᑎ ᐅᑎᑭᒪᓕᑦ ᐅᑎ. ᐅᑯᓕ ᐊᐃᓐᔭᑦ ᐊᓇᑕᑦᐅᐳᑯᑦ ᐊᐱᑕᑦ ᒧᓇᑐᓇ ᐃᓐᔭᓇ ᐅᑎᑭᕿᓐ, ᐱᑯᑭᑦ ᐃᓐᔭᓕᐅᓐᐃᓐᑐ ᑭᑕ ᐃᑐ ᐳᑕᑯᓕᑦ.

3. ᑭᒪ ᐃᓐᑲ- ᑭᑕ ᑭᐟ ᑭᐸᐟᐊᑦ ᐊᐳᐅ ᐊᐳ ᐅᑭᑐᑭ ᒧᓇᑐᓇ ᐊᓇᑕᑦᐅᐳᑯᑦ ᐅ ᑭᓕᐱᐳᐅᓐᑦ. ᑕᓕᐸᑦ, ᐊᐃᓐᔭᑦ ᑲᑭᐅᓐᐳᒪᑎ ᒧᓇᑐᓕᓇ ᐅᓐᔭᑦᑭ, ᐊᐳ ᐱᑯ ᐃᓕ ᕿᑲᓐᐩ ᐸᑭ ᒧᓇᑐᓕᓇ ᐅ ᑲᑭᐅᓐᐳᑕᑦ, ᐅᑯᑕ ᐅᑎ ᑭᑕ ᑭᓇᕿᐳᑕᑲᓐᑭᑦ ᐅ ᑭ ᐱᑯᑭᑦ ᐃᓐᔭᓕᐅᓐᐃᓐᑐ.

4. ᐊᐱᑕᑦ ᐃᐸᑯᐃᓐᐱᓕᑦ ᐅ ᐊᑭᑕᒥᑦ ᐅᑎ ᐃᓇᑯ ᑎ ᐊᑭᑕᒥᑦ ᐊᐱᑕᑦ ᐅᐸᐟᐅᐃᓐᐱᓕᑦ ᑭᒪᐃᓐᔭ ᑭᑕ ᑭ ᑭᐸᐟᐊᑦ ᐸᓇᑲᓐ ᐅᑭᑐᑭ ᒧᓇᑐᓇ.

ᐊᑕᐃᓐᔭ ᐃᐳᑭᐅᓐᑦ ᐅᑲ ᑎᓇᑲᓐ ᑲ ᑭ ᑎᐸᐟᐊᒪᑕᓐᑦ ᐅᐟᐊᓇᑭᐊᓐᑦ ᐅᑎ ᑭᑕ ᑭᐟ ᑭᐊᓐᑎᐊᓐ ᑐᐅᓐᑦ ᐅᑭᑐᑭ ᒧᓇᑐᓇᐊᓐ ᐃᓇᑯ ᐊᐱᑕᑦ ᒥᑭᓕᐃᓐ ᐱᓕᑦ.

5. ᐊᐃᓐᔭᑦ ᐅ ᐸᐸᒧᑐᑦ ᐅᑯᓕ ᐅ ᑭᑐ ᐸᐳᐳᑦ ᒥᑎᒪ ᑭᑕ ᑭᐟ ᑭᐸᐟᐅᑦ ᒧᓇᑐᓇᐊᓐ ᑎ ᐅᑲ ᑭᑐᑲᑐᑦ.

6. ᐊᐃᓐᔭᑦ ᐅ ᑭᓕᑲᒪᕿ ᑎ ᑭᐸᐟᐃᒥᑦ ᒧᓇᑐᓇᐊᓐ ᑭᐊᓐᑎᐅᓐᐃᓐᑐ ᒣᑲᓐ- ᐅ ᑭᑕᐟᐊᒪᑎᑲ ᑐᐳᑦ, ᑕᐱᓇᑯ- ᐃᓐᔭ ᑎᐱᔭᐅᓐ ᐅ ᑭᐟ ᑭᐸᐟᐊᑦ ᑭᑕ ᐃᑐᐳᑕᑯᓕᑦ.

7. ᐊᐃᓐᔭᑦ ᐅ ᐱᑯᑭ- ᐅᒪ ᐃᑕᓕᐅᓐᐃᓐᑐ ᑭᑕ ᑭᐟ ᐃᓐᔭᓕᐊᓐᑕᑦ ᑭᓇᑕᑭᑦ ᑕᑐ ᑭᑎ ᓕᑭᔭᐊᓐ ᑭᑕ ᑎᐸᐟᐊᑦ; ᐊᐳ ᒣᑲᓐ- ᑭᓇᑐ ᐱᓕᑦ ᑭᑕ ᑭ ᑭᐸᐟᐃᑲᓕ.

8. ᓕᒪᑲᑭᓇ ᐊᐳ ᐱᑯ ᐊᐃᓐᔭᑦ ᐃᓐᔭᓕᐅᓐᐃᓐᑭᐳᑭᐃᓐᑐ, ᐅ ᑭᐟ ᐃᓐᑕᒪᑯᑦ ᑭᓕ ᐊᐳᓕᐳᑭᐊᓐ ᐊᐃᓐᔭ ᐅ ᑭᐟ ᐱᑯᑭᒥᐳᑦ ᐅᒪ ᐃᓐᔭᓕᐅᓐᐃᓐᑐ, ᓕᓇᑲᓐ- ᑭᑕ ᑭᐟ ᐅᑎᑭᑦ ᐅᑯᓕ ᐃᓐᔭᓕᐅᓐᐃᓐᑭᑦ ᑭᑕ ᑭᐟ ᐃᑐᑕᐟᐅᓐ.

9. ᐊᐃᓐᔭᑦ ᐱᑯ ᐃᓕ ᐱᑯᑭᑭ ᐅᐟᐃ ᐃᑕᓕᐅᓐᐃᑭ ᑭᑕ ᑭᐟ ᐃᑐᑕᐟᐊᓐ ᐃᓐᔭᓕᐅᓐᐃᓐᑭᑦ.

10. ᐊᑭᐟ ᑲ ᐃᓐᑕᑦ ᐊᐱᑕᑦ ᑭᑕ ᐅᑎᑭᑦ ᐅᐳᑯᑦ ᑲ ᑎᐸᐟᐊᒥᐳᑦ ᐃᓐᔭ ᑲ ᐱᑯᑭᒥᐳ ᐃᓐᔭᓕᐅᓐᐃᓐᑐ.

ᐊᑭ- ᐅᑎ ᑲᑭᔭᓐ ᐊᐃᓐᔭᑦ ᐅᒪ ᐃᓐᔭ ᓕᐅᓐᐃᓐᑐ ᑭᑕ ᑲᑭᐅᓐᐳᑕᑦ.

Birkenshaw - Little Lodge