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CONTENTS.

LETTER OF APPLICATION.

LIST OF TITLES OF PUBLISHED PAPERS.

PART I.—TESTIMONIALS FROM

Professors of Geology, Mineralogy, &c.

ST. ANDREWS.

1. H. ALLEYNE NICHOLSON, M.D., D.Sc., &c., Professor of Natural History, Geology, &c., in the University of St. Andrews.

NEWCASTLE-UPON-TYNE.

2. G. LEBOUR, M.A., F.G.S., &c., Professor of Geology in the University of Durham College of Physical Science, Newcastle-upon-Tyne.

LONDON.

3. JOHN W. JUDD, F.R.S., F.G.S., &c., Professor of Geology, &c., in the Royal School of Mines.

CAMBRIDGE.

4. THOMAS M'KENNY HUGHES, M.A., F.S.A., &c., Woodwardian Professor of Geology, &c., in the University of Cambridge.

EDINBURGH.

5. ARCHIBALD GEIKIE, LL.D., F.R.S., &c., Murchison Professor of Geology in the University of Edinburgh.

PART II.—TESTIMONIALS FROM

The Presidents or Representatives of Geological and Mineralogical Societies in Britain.

LONDON.

6. ROBERT ETHERIDGE, F.R.S., F.G.S., &c., President of the Geological Society of London.
7. JOHN MORRIS, M.A., F.G.S., &c., formerly Professor of Geology in University College, London.
8. HENRY HICKS, M.D., F.G.S., &c., Vice-President of the Geologists' Association.

GLASGOW.

9. SIR WILLIAM THOMSON, F.R.S., &c., and JOHN BARCLAY MURDOCH, Esq., President and Secretary of the Geological Society of Glasgow.

EDINBURGH.

10. ROBERT GRAY, F.R.S.E., &c., Secretary of the Royal Physical Society of Edinburgh.

ST. ANDREWS.

11. M. FOSTER HEDDLE, M.D., F.R.S.E., &c., President of the Mineralogical Society of Great Britain and Ireland.

PART III.—TESTIMONIALS FROM
Foreign Geologists and Palæontologists.

SWEDEN.

12. Herr G. LINNARSSON, Palæontologist to the Geological Survey of Sweden.

GERMANY.

13. Dr. KARL ZITTEL, Professor of Geology and Palæontology in the University of Munich.

FRANCE.

14. Mons. JOACHIM BARRANDE, the illustrious author of the "Système Silurien de la Bohême."

PART IV.—TESTIMONIALS FROM
*Editors of British Magazines treating of the Science
of Geology.*

15. Dr. HENRY WOODWARD, F.R.S., &c., Editor of the "Geological Magazine," Keeper of the Geological Department of the British Museum.
16. Dr. ROBERT BROWN, M.A., F.L.S., &c., Editor of Cassell's "Science for All."

PART V.—TESTIMONIALS FROM
*The Trustees, &c., of the Madras College,
St. Andrews.*

17. Rev. A. K. H. BOYD, D.D., &c., First Minister of St. Andrews.
18. Rev. MARK L. ANDERSON, M.A., Second Minister of St. Andrews.
19. Rev. Professor CROMBIE, D.D., Examiner to Madras College.

PART VI.—TESTIMONIALS FROM
Masters in Madras College, St. Andrews.

20. ROBERT ARMSTRONG, LL.D., First Master for English.
21. W. O. LONIE, LL.D., Master for Mathematics and Physical Science, &c.
22. H. SCHAEFER, PH.D., &c., Master for Modern Languages.

From HERR G. LINNARSSON,
Palæontologist to the Geological Survey of Sweden.
Secretary of the Geological Society of Stockholm, &c.
(Author of '*Vestergötlands cambriska och Siluriska aflagringar,*'
'*Nerikes öfvergångsbildningar,*' &c., &c.)

Geologiska Byrån,
STOCKHOLM, den 5 April, 1881.

Käri Herr Lapworth—

Det gläder mich högligen att höra, att Ni är kandidat till en professorstol i geologi, och jag tillönskar Er af aut hjerta framgång, ty ju mer tillfälle Ni får att uteslutande egna Er åt vetenskaplig verksamhet, dess rikan skörder har vetenskapen att vänta, sarskildt den svenska geologien, som har så många beröringspunkter med den britiska, och därför redan dragit mycken nytta af Edra arbeten. Annu för några få år sedan herrskade inom Storbritanniens lägre palæozoiska geologi en kaotisk oreda, så att dit mötte öfvervinneliga svårigheter att draga fullständiga paralleler mellan britiska lager och främmande, t. ex. de Skandinaviska. Under de sista åren hafva dessa svårigheters blifvit till en stor del undanrödda, och härtill hafva Edra lika framgångsrika som entusiastiska arbeten mer än alla andras bidragit. Om den fullkomliga tillförlitligheten af Edra stratigrafiska utredningar kan jag så mycket mindre hysa något tvifvel, som jag under mina arbeten i Skandinavien vid så många tillfällen funnit förhållanden analoga med de af Eder skildrade, men aldrig något stridande mot dem. Ett nytt och lysande bevis på vigten och tillförlitligheten af Edra arbeten har lemnats genom det ljus de nyligen kastat äfven öfver Böhmens geologi.

I ej mindre skuld står vetenskapen till Eder för Edra arbeten öfver graptoliterna. Under det än förut de britiska geologerna helt och hållet underkände deras värde som ledande försteningar, har Ni på det mest öfvertygande sätt ådagalagt deras stora betydelse som sådana. Ingen har förut funnit nyckela till en något så när naturlig anordning af denna grupp, men äfven häre hafva stora framsteg skett genom Edert skarpsinne och Edert outtröttliga nit.

Då mina arbeten i Skandinavien i så många fall gått jemsides med Edra i Storbritannien, är det naturligt, att jag med ett alldeles specielt intresse foljt Eder verksamhet, af hvilken jag haft så mycken nytta; men att jag ej är ensam i min höga uppekättning af Edra vetenskapliga fört-

not feel the slightest doubt ; as I have, when working in Scandinavia, in so many instances discovered features precisely analogous to those wrought out by yourself, but never anything disagreeing with them. A new and brilliant proof of the importance and reliability of your work has been afforded by the light it has recently thrown also upon Bohemian Geology.

Science is equally indebted to you for your works upon the Graptolites. A few years ago British Geologists held these fossils in utter contempt as aids in the working out of rock-formations ; of late years, however, you have, in the most convincing manner, demonstrated their great importance in this very respect. Neither had any one found a key to anything like a natural arrangement of the family itself ; but in this matter also great progress has been made, through your acumen and your indefatigable zeal.

As my work in Swedish Geology in many instances has been running parallel to yours in British, I have naturally, and with quite a special interest, followed your labours, which have been of much benefit to me. That I am not alone in my high appreciation of your scientific merits, but that they are duly acknowledged in wider circles in this country, is shewn in the fact that the Geological Society of Stockholm, at their meeting of the 4th November of last year, elected you a Foreign Member—the first, and hitherto the only one in Britain—in acknowledgment both of your excellent work in British Geology, and of the interest you have taken in that of Sweden. The attention with which your scientific work is followed in this country is also proved by the abundant references to your writings that occur in most of the recent papers on our Silurian Rocks.

I am confident that if you obtain the post you seek, your ardent interest, your acumen, and your conscientiousness in research, will have a beneficial influence upon your students ; and if they follow your footsteps, not only British Geology, but science in general, will reap the benefit of your teaching.

Affectionately yours,

G. LINNARSSON.

jenster, utan at de äfven i detta land vunnit erkännande i vidare kretsar visade Geologiska Föreningen i Stockholm, då hon vid sitt möte den 4 sistlidne November valde Eder till utländsk ledamot, den förste och hittills den ende i Storbritannien, på grund så väl af Edra utmärkta originala arbeten öfver Storbritanniens geologi som det intresse Ni visat för Sveriges geologi. Den uppmärksamhet hvarmed man här följer Eder verksamhet framgår äfven deraf att man i de fleste nyare arbeten öfver våra Siluriska aflagringar finna så många hänvisningar till Edra skrifter.

Jag är öfvertygad att, om Ni får den sökta platsen, Edert brinnande intresse, Edert skarpsinne, och Edert samvetsgranna forskningstätt skola utöfra ett välgörande inflytande på Edra lärjungar; om de följa Edra fotspår, skall icke blott England's geologi, utan äfven vetenskapen i allmänhet, draga nytta af Eder lärareverksamhet.

Eder tillgifne,

G. LINNARSSON.

[TRANSLATION.]

GEOLOGICAL BUREAU,
STOCKHOLM, April 5th, 1881.

MY DEAR MR. LAPWORTH—

I am greatly pleased to learn that you have become a Candidate for a Chair of Geology; and I trust most heartily that you may be successful, as the more opportunity you have of devoting yourself entirely to scientific work, the richer harvests has Science to expect, and especially the Geology of Sweden, which possesses so much in common with that of Britain, and which has already derived so much aid from your labours. A few years ago the Lower Palæozoic Geology of Britain was in such a chaotic state that it was practically impossible to institute satisfactory parallels between the British strata and those of other countries, for instance those of Scandinavia. At the present date this difficulty has almost entirely disappeared; and to this result your labours, as successful as they have been enthusiastic, have contributed more than those of any other investigator. Of the complete reliability of your stratigraphical conclusions I can-

From Professor KARL A. ZITTEL,
Professor of Geology and Palæontology in the University of
Munich, Bavaria.
(Author of "Zittel's Handbuch der Palæontologie," "Aus der Urzeit,"
"Briefe aus der Libyschen Wüste," &c.)

München den 28ten März, 1881.

HOCHGEEHRTER HERR—

Es gereicht mir zu besonderem Vergnügen Ihrem Wunsche nach einer Meinungsäußerung über Ihre wissenschaftlichen Leistungen zu entsprechen. Ich darf mir allerdings über Ihre geologischen Schriften kein Urtheil erlauben, da mir weder das Land, nach die Ablagerungen der Silurformation, denen Sie vorzugsweise Ihre Aufmerksamkeit gewidmet haben, aus eigener Anschauung bekannt sind. Wohl aber möchte ich Ihre Untersuchungen über die Organization und Systematik der *Graptolithen* ohne Zögern zu den hervorragendsten, im letzten Jahrzehnt über fossile Invertebraten veröffentlichten Arbeiten zählen. Es gehört ein seltener Scharfsinn dazu, diese meist mangelhaft erhaltenen Reste richtig zu deuten, und aus zahlreichen Einzelbeobachtungen das Bild des ganzen Organismus zu restauriren. Dass ich in meinem Handbuch der Palæontologie für die Graptolithen Ihren Arbeiten vorzugsweise folgte, dürfte am besten für die Anerkennung sprechen, welche Ihre Beobachtungen in weiteren, dem persönlichen Einfluss des Autors entrückten Kreisen gefunden haben.

Durch Verwerthung der palæontologischen Resultate für die stratigraphische Gliederung der Silurbildungen im nördlichen Grossbritannien und Skandinavien haben Sie sich unter denjenigen Palæontologen eine hervorragende Stellung errungen, welche nicht nur den morphologischen Beziehungen der Versteinerungen Rechnung tragen, sondern auch für deren geologische Bedeutung volles Verständniss besitzen.

Wem es gelungen ist, sich trotz vielfacher anderer Beschäftigung einen so geachteten Namen in der Wissenschaft zu erwerben, muss von besonderem Enthusiasmus für wissenschaftliche Forschung erfüllt sein, und diese Eigenschaft halte ich für die wichtigste bei einem Professor der Geologie und Palæontologie:

Ich würde mich sehr freuen, wenn Sie den Lehrstuhl am Mason College in Birmingham erhielten und dadurch in Stand gesetzt

würden, Ihre ganze Kraft der Wissenschaft zu widmen, welcher Sie bereits so ausgezeichnete Dienste geleistet haben.

Genehmigen Sie die Versicherung der besonderen Hochachtung,
Ihres ergebenen

WR. K. ZITTEL.

(Translation).

MUNICH, March 28, 1881.

HONOURED SIR—

It affords me especial pleasure to respond to your desire for an expression of my personal opinion of your scientific works. Of your geological writings I cannot venture to say anything, as neither the country nor the succession among the Silurian formations to which you have primarily devoted your investigations are known to me from personal observation. But I can, without the least hesitation, assign to your researches upon the organization and classification of the Graptolites a place among the most conspicuous works of discovery in Fossil Invertebrata that have appeared during the last ten years. It demands a rare sagacity to understand aright those usually fragmentarily preserved remains, and from numerous isolated observations to restore the entire organism. The fact that I have preferably followed your works in my Manual of Palæontology affords, perhaps, the best evidence of the acceptance your observations have found in those wider circles removed from the personal influence of the author.

Through the application of the palæontological results in the stratigraphical sequence of the Silurian formations in northern Great Britain and Scandinavia, you have attained a prominent position among those Palæontologists who have not only taken into account the morphological relations of fossils, but who possess, in addition, a full understanding of their geological significance. One who has, notwithstanding multifarious other occupations, attained such a conspicuous name in Science, must be filled with a remarkable enthusiasm for scientific research, and this attribute I consider to be the most important for a Professor of Geology and Palæontology.

I should greatly rejoice if you received the Professorship in Mason College, Birmingham, and were thus placed in a position in which you might devote your entire energies to that Science for which you have already done such distinguished service.

Accept the assurances of my especial esteem,

Your devoted

W. K. ZITTEL.

From Monsieur JOACHIM BARRANDE, Prague, Bohemia,
Member of the Geological Societies of France, of London, &c., of
Vienna, &c.

(Author of the "Système Silurien de la Bohême," "Parallèle entre les
Dépôts de Bohême et de Scandinavie," "Défense des Colonies," &c.)

PRAGUE, 30 mars, 1881.

MON CHER MONSIEUR LAPWORTH—

J'apprends par votre lettre du 19^c qu'il se présente pour vous une position désirable, dans la chaire de Géologie de Mason College, à Birmingham. Je joins cordialement mes vœux à ceux de tous vos amis, pour que vous soyez appelé à occuper ce poste honorable.

Comme je n'ai eu l'avantage de vous connaître que par vos travaux et vos remarquables succès, ma haute opinion de vos mérites m'a été uniquement inspirée par vos publications, aussi bien appréciées sur le continent qu'en Angleterre.

Je me crois donc en droit d'affirmer devant vos juges, que vous êtes très digne de l'honneur que vous sollicitez. Je serai personnellement heureux et reconnaissant de votre succès.

Je vous réitère, mon cher Monsieur, l'expression de ma considération très distinguée.

J. BARRANDE.

(Translation).

PRAGUE, 30th March, 1881.

MY DEAR MR. LAPWORTH—

I LEARN from your letter of the 19th instant that a desirable position presents itself to you in the Chair of Geology in Mason College, Birmingham. I cordially join my wishes to those of your other friends that you be called to occupy that honourable post.

As I have only the advantage of knowing you through your works and your remarkable success, my high opinion of your merits has been inspired solely by your publications, which are as well appreciated upon the continent as in England.

I believe, therefore, that I have the right to affirm before your judges, that you are very worthy of the honour which you solicit. Personally, I should rejoice and be grateful for your success.

I reiterate to you, my dear sir, the expression of my most distinguished consideration.

J. BARRANDE.

GEOLOGICAL AND PALÆONTOLOGICAL MEMOIRS,

BY

CHAS. LAPWORTH, LL.D., F.G.S., &C.

1. 1870.—*Geology of the neighbourhood of Galashiels* :—
Geological Magazine, 1870, pp. 204 to 208, and 279 to 284.
2. „ *On the discovery of the Upper Silurian Rocks in Roxburgh and Dumfries* :—
Report British Association, 1870.
3. 1871.—(LAPWORTH & WILSON).—*On the Silurian Rocks of the Counties of Selkirk and Roxburgh* :—
Geological Magazine, 1871, pp. 456 to 464.
4. „ *On the Graptolites of the Gala Group* :—
Report, British Association, 1871.
5. 1872.—*On the Silurian Rocks of the South of Scotland* :—
Transactions, Geological Society, Glasgow, 1872, pp. 164 to 175.
6. „ *Researches among the Black Shales of the Southern Uplands* :—
Geological Magazine, 1872, pp. 533-4.
7. 1873.—*On the Diprionida of the Moffat Shales* :—
Proceedings, Geological Association, 1873, pp. 165 to 168.
8. „ *On Graptolites from the Pentland Hills* :—
Transactions, Edinburgh Geological Society, 1873, pp. 375 to 377.
9. „ *On an Improved Classification of the Rhabdopora* :—
Geological Magazine, 1873, pp. 500 to 504, 555 to 560.
10. 1875.—(HOPKINSON & LAPWORTH).—*Description of the Graptolites of the Arenig and Llandeilo Rocks of St. David's* :—
Quarterly Journal, Geological Society, 1875, pp. 621 to 672 ; Plates xxxiii to xxxvii.
11. 1876.—*On the Scottish Monograptidæ* :—
Geological Magazine, 1876, pp. 308 to 321, 350 to 360, 499 to 507, 544 to 552 ; Plates ix, x, xii, xiii, and xx.
12. „ (Prof. H. NICHOLSON & C. LAPWORTH).—*On the Coniston Series of the North of England* :—
Report, British Association, 1876.
13. „ *The Silurian System in South Scotland* :—
Catalogue of Western Scottish Fossils, Glasgow, 1876, pp. 1 to 28 ; Plates i to iv.
14. „ *On the Llandoverly Rocks of the Lake District* :—
Geological Magazine, 1876, pp. 477 to 480.
15. 1878.—*The Moffat Series* :—
Quarterly Journal, Geological Society, London, 1878, pp. 240 to 344 ; Plates xi, xii, and xiii.

16. 1878.—*On the Graptolites of County Down*.—
Transactions, Belfast Naturalist Field Club, Appendix 1876–77, pp. 125 to 144; Plates
v, vi, vii. Published 1878.
17. 1879.—*On the Classification of the Lower Palæozoic Rocks*.—
Geological Magazine, 1879, pp. 1 to 15.
18. „ *Recent Discoveries among the South Scottish Silurians*.—
Transactions, Geological Society, Glasgow, 1879, pp. 78 to 84.
19. 1880.—*On Linnarson's Recent Discoveries in Swedish Geology*.—
Geological Magazine, 1880, pp. 29 to 37 and 68 to 71.
20. „ *On New British Graptolites*.—
Annal and Magazine Natural History, 1880, pp. 149 to 177; Plates iv and v.
21. 1879–80.—*On the Geological Distribution of Rhabdophora*.—
Annal and Magazine Natural History, 1879, April, May, June, November, and
December; 1880, January, April, May, July, and September.
22. 1881.—*The Correlation of Cambrian Rocks of Britain and Scandinavia*.—
Geological Magazine, 1881, pp. 260 to 266 and 317 to 322.
23. „ *On the Cladophora of the Llandovery Rocks of Mid-Wales*.
Quarterly Journal, Geological Society, 1881, pp. 175 to 179; Plate vii.
24. 1882.—*On the Discovery of Cambrian Rocks in the Neighbourhood of Birmingham*.—
Geological Magazine, 1882, pp. 563 to 566.
25. „ *The Life and Work of Linnarson*.—
Geological Magazine, pp. 1 to 7, 119 to 122, 171 to 176; Plate i.
26. „ *The Girvan Succession*.—
Quarterly Journal, Geological Society, 1882, pp. 537 to 666; Plates xxiv and xxv.
27. 1883.—*The Secret of the Highlands*.—
Geological Magazine, 1883, pp. 120 to 128, 193 to 199, 337 to 344.
28. 1884.—*The Stratigraphy and Metamorphism of the Rocks of the Durness Eribole District*.—
Transactions, Geological Association, October, 1884, pp. 438 to 442.
29. 1885.—*On the Close of the Highland Controversy*.—
Geological Magazine, March, 1885.
30. „ *On the Highland Controversy in British Geology*.—
Report, British Association, 1885. Nature, November, 1885.
31. 1886.—*The Cambrian Rocks at Nuneaton*.—
Geological Magazine, July, 1886.
32. „ *The Geology and the Physiography of the Birmingham District (with a Geological Map)*.—
Association Guide Book to Birmingham, 1886, pp. 213 to 236.
- 33.—1887.—*Preliminary Report on the Ordovician Rocks of Shropshire*.—
Geological Magazine, 1887.
34. „ *On the Graptolites Collected by the Geological Survey of Canada from the Valley of the
St. Lawrence, from Gaspe to Quebec*.—
Transactions, Royal Society of Canada, 1886, vol. pp.