

## CONTENTS.

---

### PROCEEDINGS.

	PAGE
<b>SESSION OF 1894-95:—</b>	
Presidential Address by Prof. G. Lawson, LL. D.....	i
Report of the Treasurer.....	xi
“ of the Librarian .....	xii
Office-bearers for the year .....	xiii
A. H. MacKay, LL. D., on the Geology of Nictaux, N. S.....	xv
Miss Lucy C. Eaton, on the Butterflies of Truro, N. S.....	xvii
Mr. Harry Piers, on the same subject .....	xviii
<b>SESSION OF 1895-96:—</b>	
Obituary Notice of Prof. G. Lawson, LL. D., by Prof. J. G. MacGregor .....	xxiii
Report of the Recording Secretary.....	xxxii
“ “ Treasurer.....	xxxiii
“ “ Librarian .....	xxxiv
Office-bearers for the year .....	xxxvi
Note on Newton's Third Law of Motion, by Prof. J. G. MacGregor .....	xxxvii
Manganese Dendrites, by A. H. MacKay, LL. D .....	xxxviii
The Batrachia and Reptiles of Nova Scotia, by A. H. MacKay, LL. D.	xli
Notes on the Dialect of the People of Newfoundland, by Rev. G. Patterson, D. D., LL. D.....	xliv
<b>SESSION OF 1896-97:—</b>	
Presidential Address, by E. Gilpin, Jr., LL. D.:—	
Review of Work of Session of 1895-96 .....	lxix
The System of Instruction and Examination of Mining Officials in Nova Scotia.....	lxxxix
Report of the Treasurer.....	lxxxvi
“ “ Librarian .....	lxxxvi
Office-bearers for the year .....	lxxxvii
Measurements of Two Beothuk Skulls, by W. H. Prest, Esq.....	xcii
Resolution on Proposed Victoria Research Fund .....	xcii
Calcareous Algae, by A. H. MacKay, LL. D.....	xcii

## SESSION OF 1897-98 :—

	PAGE
Presidential Address, by E. Gilpin, Esq., Jr., LL. D.:—	
Obituary Notice of the late Rev. G. Patterson, D. D., LL. D.	xcv
Provincial Exhibitions .....	xcviii
The Provincial Museum .....	xcviii
Report of the Treasurer .....	c
“ “ Librarian .....	c
Office-bearers for the year .....	cii

## TRANSACTIONS.

## SESSION OF 1894-95 :—

I. Notes on Concretions found in Canadian Rocks, by T. C. Weston, F. G. S. A., late of the Geological Survey of Canada...	1
II. The Iron Ores of Nictaux, N. S., and Notes on Steel Making in Nova Scotia, by E. Gilpin, Jr., LL. D., F. R. S. C., Inspector of Mines .....	10
III. True Surfaces and Accurate Measurements, by D. W. Robb, A. S. M. E.....	21
IV. Relics of the Stone Age in Nova Scotia, by Harry Piers.....	26
V. Phenological Observations made at several Stations in Eastern Canada during the year 1894, compiled by A. H. MacKay, LL. D .....	59
VI. A Foraminiferous Deposit from the bottom of the North Atlantic, by A. H. MacKay, LL. D.....	64
VII. Notes on the Geology and Botany of Digby Neck, by Prof. L. W. Bailey, Ph. D., F. R. S. C.....	68
VIII. The Flora of Newfoundland, Labrador, and St. Pierre et Miquelon: Part II., by the Rev. A. C. Waghorne .....	83

## SESSION OF 1895-96 :—

I. On the Calculation of the Conductivity of Mixtures of Electrolytes, by Prof. J. G. MacGregor.....	101
II. On the Calculation of the Conductivity of Mixtures of Electrolytes having a common Ion, by Douglas McIntosh, Physical Laboratory, Dalhousie College, Halifax, N. S.....	120
III. The Undeveloped Coal Fields of Nova Scotia, by E. Gilpin, Jr., LL. D.....	134
IV. Notes on the Geology of Newfoundland, by T. C. Weston, F. G. S. A .....	150
V. Glacial Succession in Central Lunenburg, N. S., by W. H. Prest, Esq.....	158
VI. Notes on the Superficial Geology of Kings Co., N. S., by Prof. A. E. Coldwell, M. A.....	171
VII. On an Arborescent Variety of <i>Juniperus communis</i> , of Linnæus, occurring in Nova Scotia, and not previously noticed in our Flora, by J. Somers, M. D.....	175

SESSION OF 1895-96—*Continued* :—

PAGE

VIII.	Some Nova Scotian Illustrations of Dynamical Geology (with three Plates), by Prof. L. W. Bailey, Ph. D., LL. D. ....	180
IX.	Phenological Observations made at several Stations in Canada during the year 1895, compiled by A. H. MacKay, LL. D. ....	195
X.	Preliminary Notes on the Orthoptera of Nova Scotia, by Harry Piers .....	208

## SESSION OF 1896-97 :—

I.	On the Relation of the Physical Properties of Aqueous Solutions to their State of Ionization, by Prof. J. G. MacGregor.....	219
II.	On some Analyses of Nova Scotia Coals and other Minerals, by E. Gilpin, Esq., Jr., LL. D. ....	246
III.	Notes on Nova Scotian Zoology, No. 4, by Harry Piers, Esq ..	255
IV.	Phenological Observations, Canada, 1896, compiled by A. H. MacKay, LL. D. ....	268
V.	Supplementary Note on Venus, by A. Cameron, Esq. ....	275
VI.	The Rainfall in 1896, F. W. W. Doane, M. Can. Soc. C. E. ....	279

## SESSION OF 1897-98 :—

I.	On the Calculation of the Conductivity of Aqueous Solutions containing Potassium and Sodium Sulphates, by E. H. Archibald, B. Sc. ....	291
II.	Remarks on some Features of the Kentucky Flora, by the late Prof. George Lawson, LL. D. ....	302
III.	On the Calculation of the Conductivity of Aqueous Solutions containing the Double Sulphate of Copper and Potassium, and of Mixtures of Equimolecular Solutions of Zinc and Copper Sulphates, by E. H. Archibald, B. Sc. ....	307
IV.	On the Calculation of the Conductivity of Aqueous Solutions containing the Chlorides of Sodium and Barium, by T. C. McKay, B. A. ....	321
V.	On the Relation of the Surface Tension and Specific Gravity of certain Aqueous Solutions to their State of Ionization, by E. H. Archibald, B. Sc. ....	335
VI.	On the Calculation of the Conductivity of Aqueous Solutions of Potassium-Magnesium Sulphate, by T. C. McKay, B. A. ....	348
VII.	Triassic (?) Rocks of Digby Basin, by Prof. L. W. Bailey, LL. D. ....	356
VIII.	The Flora of Newfoundland, Labrador, and St. Pierre et Miquelon: Part III., by Rev. A. C. Waghorne .....	361
IX.	Phenological Observations, Canada, 1897, compiled by A. H. MacKay, LL. D. ....	402

APPENDICES :—	PAGE
I. List of Members, 1894-95.....	I
II. List of Members, 1895-96.....	V
III. List of Members, 1896-97.....	IX
IV. List of Members, 1897-98.....	XIII
INDEX TO VOLUME IX .....	XVII

---



---

### ERRATA.

---

P. 130.—The numbers in the third column of the first table should be multiplied by the ratio of the number of gramme-molecules of Sodium Chloride to the number of gramme-molecules of Potassium Chloride, in the corresponding constituent solutions.

P. 132.—The numbers in the fourth column of the table should be multiplied by the ratio of the number of gramme-molecules of Sodium Chloride to the number of gramme-molecules of Hydrochloric Acid in the constituent solutions.