EDITORIAL

Some Belations of Geology

Notes on Toronto Societies

Books New

Steel: C. MACALLUM..................251

Charles Earle ......................258

Northwestern Meteorology:
..............................260

The Primary Segmentation of the Brain: C. F. W. McCLURE .................260

Charles E. Bendire: C. HART MERRIAM ..........261

Current Notes on Physiology:
........................................263

Northwestern Oregon; Glacial Deposits of Indiana; Scientific Geography of Italy; Notes on Ashanti: W. M. DAVIS....................283

Current Notes on Meteorology:
..............................284

Cloud Heights: Fog Possibilities; International Balloon Meteorology: R. DEG. WARD........................................284

Current Notes on Anthropology:
........................................285

The Shell Gorges of North America; The Red Race of Madagascar; Glacial Man in Ohio: D. G. BRINTON .............................285

Notes on Isoranic Chemistry: J. L. H. ...............................286

Scientific Notes and News:
........................................287

A Director of Scientific Work for the Department of Agriculture; Young's 'Reversing Layer'; Motor Carriages; General................287

University and Educational News........................................274

Discussion and Correspondence:

Compliment or Plagiarism? Beman and Smith. Professor Jastrow's Test on Diversity of Opinion: J. H. HYSLOP........................................275

Scientific Literature:
..............................275


Scientific Journals:
..............................277

The Auk; The Journal of Geology: H. F. B.........281

Societies and Academies:
..............................281

The New York Academy of Sciences—Subsection of Anthropology and Psychology: LIVINGSTON FARBAND. Torrey Botanical Club: EDWARD S. BURGESS.................283

New Books........................................284

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FRIDAY, FEBRUARY 12, 1897.

CONTENTS:

Some Present Possibilities in the Analysis of Iron and Steel: C. B. DUDLEY..................241

Toronto Meeting of the British Association: A. B. MACALLUM..................251

Geology at the British Association: W. W. WATTS..................252

Relations of Tarsius to the Lemurs and Apes: CHARLES EARLE ..............................258

The Primary Segmentation of the Brain: C. F. W. McCLURE ........................................260

Charles E. Bendire: C. HART MERRIAM ..........261

Current Notes on Physiology:
........................................263

Northwestern Oregon; Glacial Deposits of Indiana; Scientific Geography of Italy; Notes on Ashanti: W. M. DAVIS....................283

Current Notes on Meteorology:
..............................284

Cloud Heights: Fog Possibilities; International Balloon Meteorology: R. DEG. WARD........................................284

Current Notes on Anthropology:
........................................285

The Shell Gorges of North America; The Red Race of Madagascar; Glacial Man in Ohio: D. G. BRINTON .............................285

Notes on Isoranic Chemistry: J. L. H. ...............................286

Scientific Notes and News:
........................................287

A Director of Scientific Work for the Department of Agriculture; Young's 'Reversing Layer'; Motor Carriages; General................287

University and Educational News........................................274

Discussion and Correspondence:

Compliment or Plagiarism? Beman and Smith. Professor Jastrow's Test on Diversity of Opinion: J. H. HYSLOP........................................275

Scientific Literature:
..............................275


Scientific Journals:
..............................277

The Auk; The Journal of Geology: H. F. B.........281

Societies and Academies:
..............................281

The New York Academy of Sciences—Subsection of Anthropology and Psychology: LIVINGSTON FARBAND. Torrey Botanical Club: EDWARD S. BURGESS.................283

New Books........................................284

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SOME PRESENT POSSIBILITIES IN THE ANALYSIS OF IRON AND STEEL.*

To the analytical chemist there are few substances in nature more interesting than a piece of pig iron, few substances which have received more study, and few which present chemical problems more difficult of solution. The amount of work which has already been done in connection with this very common but very complex substance is something enormous. Indeed, if we add to the study which has already been put on pig iron itself the work which has been done on what may perhaps fairly be called its progenitors, viz., the ores, the fuel, the flux and the refractory materials used in its production, and then consider still further the labor already expended in the analysis of what we may call the progeny of pig iron, viz., castings, wrought iron, malleable iron and the numerous grades and kinds of steel, made by the various processes of the present day, we shall surely be safe in saying that more chemical work has been done in connection with pig iron than with any other substance in nature. Is it too much to affirm that at the present time one-third, possibly one-half, of all the chemical work done in the world is in connection with the iron industry, either in the solution of unworked-out problems, the

* Presidential address delivered at the Troy meeting of the American Chemical Society, December 29, 1896.