

**THE MINING WORLD
INDEX OF CURRENT
LITERATURE; VOL. X.
LAST HALF YAER 1916**

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649143702

The Mining World Index of Current Literature; Vol. X. Last half yaer 1916 by Geo. E. Sisley

Except for use in any review, the reproduction or utilisation of this work in whole or in part in any form by any electronic, mechanical or other means, now known or hereafter invented, including xerography, photocopying and recording, or in any information storage or retrieval system, is forbidden without the permission of the publisher, Trieste Publishing Pty Ltd, PO Box 1576 Collingwood, Victoria 3066 Australia.

All rights reserved.

Edited by Trieste Publishing Pty Ltd.
Cover @ 2017

This book is sold subject to the condition that it shall not, by way of trade or otherwise, be lent, re-sold, hired out, or otherwise circulated without the publisher's prior consent in any form or binding or cover other than that in which it is published and without a similar condition including this condition being imposed on the subsequent purchaser.

www.triestepublishing.com

GEO. E. SISLEY

**THE MINING WORLD
INDEX OF CURRENT
LITERATURE; VOL. X.
LAST HALF YAER 1916**



P
Tech
M.

(THE)

MINING WORLD INDEX

"of Current Literature"

VOL. X

LAST HALF YEAR

1916

By GEO. E. SISLEY
Associate Editor
Mining and Engineering World

*An International Bibliography of Mining and the Mining Sciences Compiled and
Revised Semi-Annually from the Index of the World's Current Literature
Appearing Weekly in "Mining and Engineering World"*

MINING WORLD COMPANY
MONADNOCK BLOCK
CHICAGO
1916

101806
7/3/17

PREFACE

As in previous volumes the world's literature on mining, metallurgy and kindred subjects appearing in periodical magazines published in America, Europe, Africa and Australia, have been arranged in classified form. These articles cover mining, engineering, metallurgy, geology, mineralogy, etc. There is also included papers read before institutes and affiliated engineering and technical societies, as well as reports of Federal and State Geological Surveys and Mining Bureaus at home and abroad, and new books. By the system of cross-indexing adopted what is wanted on any mining or affiliated subject is readily found. A brief digest of all articles is given so that a general idea of the article may be obtained. Where more than one author occurs the first-named appears in alphabetical arrangement; the other or others will be found by referring to the authors' index.

In the search for some particular article covering a certain subject it should be remembered that when reference of any importance is made in that article to more than one subject, the article will be indexed under the different subjects. Careful thought is given to the arrangement of subjects and the classifying of same, and the author would be glad to receive any criticism or suggestion, the adoption of which would make the book of more value to the busy man.

CONTENTS

PART I.

GEOLOGY AND MINERALOGY.

CHAPTER 1.—Geology, Ore Genesis, Mineralogy, Petrography.....	1
---	---

PART II.

ORES AND MINERAL PRODUCTS.

CHAPTER 2.—Gold, Silver, Platinum.....	13
CHAPTER 3.—Copper	30
CHAPTER 4.—Lead, Zinc, Cadmium.....	40
CHAPTER 5.—Iron and Steel.....	52
CHAPTER 6.—Alloys, Antimony, Manganese, Molybdenum, Tungsten, etc.	58
CHAPTER 7.—Tin, Nickel, Cobalt, Aluminum.....	66
CHAPTER 8.—Miscellaneous Metals and Ores..... Mercury; Osmium; Radium; Ores Unclassified,	70
CHAPTER 9.—Fuels and By-Products..... Coal; Coke; Peat; Miscellaneous,	72
CHAPTER 10.—Petroleum, Natural Gas, Etc.....	85
CHAPTER 11.—Structurals and Ceramics..... Brick and Tile; Cement; Clays and Ceramics; Lime; Concrete; Sand and Gravel; Stone.	90
CHAPTER 12.—Other Non-Metals	94
Abrasives; Acids; Arsenic; Asbestos; Feldspar; Fertilizers; Fluorspar; Gems; Graphite; Gypsum; Magnesite; Mica; Nitrates; Potash; Pyrites; Quartz; Salines; Sulphur; Talc and Soapstone.	

PART III.

TECHNOLOGY.

CHAPTER 13.—Mines and Mining (a).....	100
Prospecting; Surveying and Drafting; Ore Reserves; Drilling and Boring; Sampling; Explosives and Blast- ing; Shafts and Shaft Sinking; Lighting; Telephones and Signaling; Pumps and Pumping; Tunnels and Tun- neling; Mine Waters; Mine Gas; Ventilation; Sup- ports; Hoists and Hoisting; Dredging; Power Shovels and Excavators; Hydraulic Mining; Mining Costs; Mining Miscellany.	

CONTENTS.

CHAPTER 14.—Mines and Mining (b).....	121
Transport and Haulage; Storage; Accidents; Safety; Rescue and First-Aid; Sanitation; Labor and Management; Sociological; Accounts and Bookkeeping.	
CHAPTER 15.—Mines and Mining (c).....	129
Production of Metals and Metal Ores, Non-Metals, etc.	
CHAPTER 16.—Mill and Milling.....	137
Sampling; Crushing; Grinding, etc.; Flotation; Concentration; Amalgamation; Cyaniding; Briquetting; Chlorination; Milling Costs; Mill Miscellany.	
CHAPTER 17.—Chemistry and Assaying.....	150
Chemistry; Electrochemistry; Assaying; Analysis.	
CHAPTER 18.—Metallurgy	156
Electrometallurgy; Thermic Metallurgy; Hydrometallurgy; Metallurgy General.	
CHAPTER 19.—Power and Machinery.....	166
Electricity; Compressed Air; Combustion Engines; Steam and Steam Engines; Gas Producers; Producer Gas; Miscellaneous.	

PART IV.

MISCELLANEOUS.

CHAPTER 20.—Miscellaneous	178
Costs; Testing; Waste; Metallography; Law; Legislation; Taxation; Conservation; Government Ownership; Historical; Schools and Societies; Financial; Miscellaneous General.	

PUBLICATIONS INDEXED

INCLUDING PERIODICALS AND BOOKS; TRANSACTIONS, BULLETINS, ETC., OF
SCHOOLS, SOCIETIES AND GOVERNMENT BUREAUS.

A

Acetylene Journal.
African World.
Alabama Geological Survey.
Alaska & Northwest Mining Journal.
All-Alaska Review.
Allianza, Mexico.
American Ceramic Society.
American Chemical Society.
American Electrochemical Society.
American Fertilizer.
American Foundrymen's Association.
American Industries.
American Institute of Chemical Engineers.
American Institute of Electrical Engineers.
American Institute of Metals.
American Institute of Mining Engineers.
American Iron & Steel Institute.
American Journal of Science.
American Metal Society.
American Mining Congress.
American Museum of Safety.
American Peat Society.
American Portland Cement Manufacturers.
American Railway Engineering Association.
American Society of Civil Engineers.
American Society of Engineering Contractors.
American Society of Mechanical Engineers.
American Society of Naval Engineers.
American Wood Preservers' Association.
Annales de Mines, France.
Anode.
Argentine Sociedad Cientifica.
Arizona Mine Inspector.
Arizona State Bureau of Mines.
Arizona State Geological Survey.
Arkansas Bureau of Mines.
Arkansas Geological Survey.
Association of Engineering Societies.
Association of Mining Electrical Engineers, England.
Association of Railway Electrical Engineers.
Atti del Coleglio degli Ingenerio Ed Architetti.
Australian Coal & Iron Trade Review, Sydney.
Australian Institute of Mining Engineers.
Australian Mining Standard, Melbourne.

B

Belgium Annales des Mines.
Berg, Hütten & Salinenwesen in preussischen Staate, Germany.
Berg- und Hüttenwesen, Germany.
Berg- und Hüttenmännische Rundschau, Kattowitz, Germany.
Berg und Hüttenm, Jahrb, Leoben-Pribram, Bergbau, Germany.
Bergericht, Germany.
Bergwerks-Zeitung, Germany.
Bergwerkschaftliche Mitteilungen, Germany.
Birmingham Metallurgical Society, England.
Bitumen, Germany.
Black Diamond.
Bolivia Geological & Geographical Boletin.
Braunkohle, Germany.
Brick & Clay Record.

British Columbia Bureau of Mines.
British Columbia Mining Exchange & Engineering News, B. C.
British Guiana Institute of Mines and Forests.
British Institute of Metals.

C

Cairo Scientific Society.
California Derrick.
California Miners' Association.
California State Mining Bureau.
Canada Department of Mines.
Canada Geological Survey.
Canadian Engineer.
Canadian Mining Institute.
Canadian Mining Journal.
Cassier's Magazine.
Cement.
Centralblatt der Hütten & Walzwerke, Berlin, Germany.
Chemical Engineer.
Chemical Metallurgical & Mining Society of South Africa.
Chemiker-Zeitung, Germany.
Chemiker & Techniker-Zeitung, Austria.
Chemist-Analyst.
Cile Instituto de Ingenieros.
Cleveland Engineering Society.
Coal Age.
Coal Mining Institute of America.
Coal Trade Bulletin.
Coal & Coke Operator.
Colliery Guardian, London.
Colorado Geological Survey.
Colorado School of Mines.
Colorado Scientific Society.
Colorado State Bureau of Mines.
Colorado University.
Columbia Department de Antioquia.
Columbia School of Mines Quarterly.
Compressed Air Magazine.
Concrete-Cement Age.
Connecticut State Geological & Natural History Survey.
Cornwall Mining Association and Institute, England.
Cuerpo de Ingenieros de Minas del Peru, Peru.

D

Der Erzbergbau, Germany.
Deutsche Technik, Germany.
Die Fördertechnik, Germany.
Domestic Engineering.

E

Economic Geology.
Edinburgh Geological Society, Scotland.
Eisen Zeitung, Germany.
El Economista Mexicana, Mexico.
El Petrolero Mexicano, Mexico.
Electrical Engineer, London.
Electrical Review, London.
Electrical Review & Western Electrician.
Electrician, London.
Elektrochemie, Germany.

PUBLICATIONS INDEXED

Electrotechnik & Maschinenbau, Austria.
 Elektroschemische Zeitschrift, Germany.
 Engineering Association of New South Wales, Australia.
 Engineering, London.
 Engineering Magazine.
 Engineering Review, London.
 Engineering & Contracting.
 Engineers' & Mining Journal.
 Engineers' Club.
 Engineers' Society of Eastern Pennsylvania.
 Engineers' Society of Western Pennsylvania.
 English Ceramic Society, England.
 Excavating Engineer.

Iron & Coal Trades Review, London.
 Iron & Steel Institute, London.

J

Jern Kontorets Annaler, Sweden.
 Journal du Four Electrique et de l'Electrolyse, France.
 Journal du Pétrole, France.
 Journal of Electricity, Power & Gas.
 Journal of Geology.
 Journal of Industrial & Engineering Chemistry.

K

Kali, Erz & Kohle, Germany.
 Kali, Halle, Germany.
 Kansas Mine Inspector.
 Kansas University Geological Survey.
 Kentucky Department of Mines.
 Kentucky Geological Survey.
 Kentucky Mining Institute.
 Kentucky University.
 Kohle & Erz, Germany.
 Kohleninteressent, Germany.
 Kunstdünger Industrie, Germany.

L

La Metallurgie du Nord, France.
 Lackawanna Chemical Society.
 Lake Superior Mining Institute.
 Le Pétrole, France.
 Le Phosphate, France.
 Levant Trade Review, Turkey.
 Liverpool Geological Association, England.
 L'Opinion Financière, France.
 Los Angeles Chamber of Mines & Oil.
 Louisiana Geological Survey.

M

General Electric Review.
 Geological Society of America.
 Geological Society of Tokyo, Japan.
 Geological Society of Washington, D. C.
 Georgia Geological Survey.
 Gesamt-Schloss & Sprengstoffwesen, Germany.
 Glesserei Zeitung, Germany.
 Glickauf, Germany.
 Great Britain Geological Survey.

I

Idaho State Inspector of Mines.
 Ideal Power.
 Illinois Bureau of Labor Statistics.
 Illinois State Geological Survey.
 Illinois State Mining Board.
 Illinois Miners' Mechanics Institute.
 Illinois University.
 India Geological Survey.
 India Mining & Geological Institute.
 Indian & Eastern Engineer.
 Indiana Department of Geology & Natural Resources.
 Indust. Chimica, Minerar. e Metallurg., Italy.
 Industrial Advocate, Nova Scotia.
 Industrial Engineering & Engineering Digest.
 Ingots.
 Ingeniería y Contratista.
 Ingeniería, Spain.
 Institute of Engineers & Ship Builders, Scotland.
 Institute of Marine Engineers, England.
 Institution of Mining Engineers, London.
 Institution of Mining & Metallurgy, London.
 International Congress for Radiology & Electrology.
 International Railway Fuel Association.
 International Institute of Technical Bibliography.
 International Vereines der Bohrgeräte- und Bohrtechniker, Austria.
 Iowa Engineer.
 Iowa Geological Survey.
 Iowa Mine Inspectors.
 Iowa State College Engineering Experiment Station.
 Iowa University.
 Iron Age.
 Iron Trade Review.

Madrid Científico, Spain.
 Malayan Tin & Rubber Journal, F. M. S.
 Manchester Association of Engineers, England.
 Manchester Mining & Geological Society, England.
 Marine Review.
 Maryland Geological Survey.
 Maryland Mine Inspector.
 Mechanical World, England.
 Mensuel de l'Association Amicale.
 Metal und Erz, Halle, Germany.
 Métaux et Alliages, France.
 Metallurgia Italiana, Italy.
 Metallurgical & Chemical Engineering.
 Metallurgie & Construction Mechanique, France.
 Metallurgie, Germany.
 Mexicanas Sociedad Geologica.
 Mexican Institute of Mining & Metallurgy, Mexico.
 Mexican Mining Journal.
 Michigan Geological Survey.
 Midland Institute of Mining, Civil & Mechanical Engineers, England.
 Mine Inspectors' Institute of U. S.
 Mine, Quarry & Derrick.
 Mining American.
 Mining Engineering, London.
 Mining Engineering & Electrical Record, B. C.
 Mining Institute of Scotland.
 Mining Journal, London.
 Mining Magazine, London.
 Mining, Oil & Engineering Review.
 Mining Society of Nova Scotia.
 Mining World & Engineering Record, London.
 Mining & Engineering Review, Australia.
 Mining & Engineering World.
 Mining & Geological Institute of India.
 Mining & Metallurgical Society of America.
 Mining & Oil Bulletin.

PUBLICATIONS INDEXED

IX

- Mining & Scientific Press.
 Minnesota Geological & Natural History Survey.
 Minnesota School of Mines.
 Minnesota University.
 Mississippi Geological Survey.
 Missouri Bureau of Geology and Mines.
 Missouri Geological Survey.
 Missouri School of Mines.
 Mois Minier et Metallurgique, France.
 Montan-Zeitung für Oesterreich-Ungarn und die Balkanländer, Austria.
 Montana Bureau of Agriculture, Labor & Industry.
 Montana Inspector of Mines.
 Montanistische Rundschau, Germany.
 Municipal Engineer.
- N**
- National Academy of Sciences.
 National Association of Chemical Industry.
 National Association of Colliery Managers, London.
 National Association of Stationary Engineers.
 National Geographic Magazine.
 National Lime Manufacturers' Association.
 Natural Gas Journal.
 Nevada Inspector of Mines.
 Nevada University.
 New Jersey Geological Survey.
 New South Wales Engineering Association.
 New York Geological Survey.
 New Zealand Geological Survey.
 New Zealand Institute.
 North Carolina Geological Survey.
 North of England Institute of Mining & Mechanical Engineers.
 North Staffordshire Institute of Mining & Mechanical Engineers.
 Nova Scotia Mining Society.
- O**
- Oesterreichische Zeitschrift für Berg- und Hüttenwesen, Vienna, Austria.
 Ohio Geological Survey.
 Oil Age.
 Oil & Gas Journal.
 Oil & Mining Bulletin.
 Oildom.
 Oklahoma Geological Survey.
 Ontario Bureau of Mines.
 Oregon Mineral Resources.
 Oregon University.
- P**
- Pahaspasa Quarterly.
 Pan American Union.
 Penn State Mining Quarterly.
 Pennsylvania Mines Department.
 Pennsylvania Topographic & Geologic Survey.
 Peru Engineer of Mines.
 Peru Today, Lima.
 Pétrole, France.
 Petroleum, Germany.
 Petroleum World, London.
 Pfalz-Saarbrücker Bezirksvereins Deutscher Ingenieure, Germany.
 Philadelphia Engineers' Club.
 Philippine Journal of Science, Manila.
 Pittsburgh University.
 Popular Mechanics.
 Popular Science Monthly.
 Power.
 Practical Electricity & Engineering.
 Practical Engineer.
 Praktische Geologie, Germany.
- Q**
- Quebec Bureau of Mines.
 Quebec Department of Colonization, Mines & Fisheries.
 Queensland Geological Survey.
 Queensland Government Mining Journal.
- R**
- Radium.
 Rassegna Mineraria Metallurgica e Chimica, Italy.
 Reclamation Record.
 Resoconti delle Riunioni Association, Italy.
 Retail Coalman.
 Revista Minera e Industria de Linares, Spain.
 Revista Minera Metallurgica y de Ingeniería, Spain.
 Revista Petrolera, Mexico.
 Revue de Metallurgie, France.
 Revue des Matériaux de Construction, France.
 Revue d'Electrochimie et d'Electrometallurgie, France.
 Revue Industrielle du Centre, France.
 Revue Noire, France.
 Revue Practique des Industries Métallurgiques, France.
 Rhodesia (Southern) Mines Department.
 Rhodesian Chamber of Mines, Bulawayo.
 Rigasche Industrie, Russia.
 Rock Products.
 Royal Geological Society of Cornwall, England.
 Royal Society of Arts Journal, London.
 Royal Society of Canada.
- S**
- Salt Lake Mining Review.
 Schloss & Sprengstoffwesen, Germany.
 Science & Art of Mining, England.
 Science Conspicuous.
 Sibley Journal of Engineering.
 State Trade Gazette, England.
 Smithsonian Institution.
 Société Amicale des Anciens Élèves de l'École des Maitres-Mineurs de Douai, France.
 Société Chimique de Belgique, Belgium.
 Société des Ingénieurs Civils de France.
 Society of Arts, London.
 Society of the Chemical Industry, London.
 South Africa Engineering, London.
 South Africa Geological Survey.
 South African Association of Engineers.
 South African Institute of Electrical Engineers.
 South African Mining Journal.
 South Australia Department of Mines.
 South Carolina Geological Survey.
 South Dakota Engineering Society.
 South Dakota Geological Survey.
 South Dakota Inspector of Mines.
 South Dakota School of Mines.
 South Staffordshire & Warwickshire Institute of Mining Engineers, England.
 South Wales Institute of Engineers, Wales.
 Staffordshire Iron & Steel Institute, England.
 Stahl und Eisen, Germany.
 Stone Trade Journal.
 Südwestdeutsche Industrie Zeitung, Prussia.
 Sydney University Engineering Society.
- T**
- Technische Blätter, Essen-Ruhr, Germany.
 Technische Centralanzeiger, Germany.