

STATE OF OREGON  
DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES  
702 Woodlark Building  
Portland 5, Oregon

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Bulletin No. 33

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## **Bibliography of the Geology and Mineral Resources of Oregon**

(SUPPLEMENT)

July 1, 1936, to December 31, 1945

Compiled by  
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Geologist

With Contributions by  
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#### FOREWORD

Just as the index of a book points directly to the subject matter which one wishes to consult, so does a bibliography assemble in systematic form titles and authors' names of published material on any subject. Thus the researcher is provided with a time-saving tool.

In 1936 the State Planning Board issued a bibliography of published reports on the geology and mineral resources of Oregon. This valuable reference book, prepared by Mr. Ray C. Treasher, economic geologist, and Dr. Edwin T. Hodge, professor of economic geology at Oregon State College, has been widely used.

During the succeeding ten years more than one thousand reports and articles on Oregon geology and related subjects have been published; therefore the need for a supplement to the original bibliography is evident, and the present volume is designed to supply that need.

F. W. Libbey  
Director

October 1, 1947

SOURCE MATERIAL

American Association of Petroleum Geologists Bulletin  
American Geophysical Union  
American Institute of Mining and Metallurgical Engineers  
Technical Publications  
Transactions  
Yearbooks  
American Journal of Science  
American Mineralogist  
American Museum Novitates  
Bibliography of Economic Geology  
Bibliography of U.S. Public Documents  
California Department of Natural Resources Journal of Mines and Geology  
California, University, Department of Geological Sciences  
Bulletins  
Theses in Geology  
Carnegie Institution of Washington Contributions to Paleontology  
Economic Geography  
Economic Geology  
Engineering and Mining Journal  
Geographical Review  
Geological Society of America  
Bulletins  
Memoirs  
Proceedings  
Special Papers  
Geological Society of the Oregon Country News Letter  
Idaho Bureau of Mines and Geology  
Annual Reports  
Bulletins  
Pamphlets  
Industrial Arts Index  
International Index to Periodicals  
Journal of Geology  
Journal of Paleontology  
Journal of Sedimentary Petrology  
Mazama  
Mineralogist  
Mining and Metallurgy  
Mining Congress Journal  
National Academy of Science  
Memoirs  
Proceedings

SOURCE MATERIAL  
(Cont.)

National Geographic Magazine  
Northwest Science  
Oregon Business Review  
Oregon Department of Geology and Mineral Industries  
    Bulletins  
    Maps  
    Miscellaneous Papers  
    Ore.-Bin  
    Short Papers  
Oregon Historical Quarterly  
Oregon State College  
    Agricultural Experiment Station Circulars  
    Monographs  
    Theses in geology and mining  
Oregon, University  
    Monographs  
    Theses in geology  
Pan-American Geologist  
Rocks and Minerals  
Science, N.S.  
Scientific Monthly  
Seismological Society of America Bulletin  
Stanford University Geological Contributions  
U.S. Bureau of Mines  
    Bulletins  
    Information Circulars  
    Minerals Yearbooks  
    Reports of Investigations  
    Technical Papers  
    War Minerals Reports  
U.S. Geological Survey  
    Annual Reports  
    Bulletins  
    Circulars  
    Professional Papers  
    Water-Supply Papers  
Washington Dept. Conservation and Development, Div. Mines and Geology  
    Bulletins  
    Information Circulars  
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## INTRODUCTION

This volume is a supplement to the one with a similar title prepared by Ray C. Treasher and Edwin T. Hodge for the Oregon State Planning Board and published in 1936 by Conger Printing Company, Portland, Oregon.

Two chief differences in make-up will be noted. First, the serial number system has been abandoned in favor of the numerical listing of references by date of publication under each separate author, a system used in the bibliographies of the U.S. Geological Survey. Second, the subject index has been divided into sections, representing the chief divisions of the geological sciences. There are many duplicate references in the index resulting from this system, but it is believed that the various subjects will be more easily found in this type of index.

Unfortunately, time was lacking to continue the admirable practice of supplying abstracts or summaries of each of the articles by which Mr. Treasher made his volume almost a textbook on Oregon geology. It was also found impossible to give references listing the libraries in the Northwest where the publications mentioned are on file.

Numerous references from Washington, Idaho, and California are included. Political boundaries have little regard for natural resources or geologic features, and much of the story of Oregon geology depends upon features better described in adjacent states.

This bibliography attempts to include all references to geological and mining subjects in Oregon, but undoubtedly items have been overlooked. The compiler will appreciate having such items called to his attention, so that they may be included in later publications by the Department. A few items will be noted with dates prior to 1936. These were omitted from previous bibliographies.

Valuable assistance in the compilation of this volume was given by Ray C. Treasher and by Elinor Kinsley and Hazel Quasdorf, Oregon State College Library, who furnished lists of references which they had prepared. Lloyd L. Ruff also contributed a number of references. The Department and the compiler gratefully acknowledge their cooperation, and also wish to take this opportunity to express appreciation for the careful and painstaking typing of the final draft by Lillian F. Owen.

AUTHOR INDEX - Adair to Allen

An asterisk (\*) indicates material reproduced by other means than ordinary printing.

Adair, S.E., Jr.

26 Geologic report of Bear River structure (Washington): North Pacific Developer, vol. 1, no. 2, pp. 19, 22, 1 geol. map, Dec. 1926.

---

Adams, James Arthur

41 Pumice and pumicite: Oregon Dept. Geol. and Min. Ind. Short Paper no. 6, 8 pp. (\*), 1941.

---

Adams, O.D.

37 Report of the mining industry in Oregon: Oregon State Board of Vocational Education, vol. 14, no. 1, 1937.

---

Adams, W. Claude

41 Life history of the horse: Geol. Soc. Oregon Country News Letter, vol. 7, part 1, Tertiary horses, no. 15, pp. 137-9 (\*); part 2, Quaternary horses, no. 16, pp. 149-151 (\*), 1941.

---

Aitkens, I.

31 Feldspar gems: U.S. Bur. Mines Inf. Circ. 6533, p. 8 (\*) (labradorite in southern Oregon), Nov. 1931.

---

Alford, E.C.

37 The lava cast forests of Oregon: Rocks and Minerals, vol. 12, no. 5, pp. 146-7, May 1937.

---

Allen, A.R.

38 Willamette iron shales: Mineralogist, vol. 4, no. 6, p. 16, June 1938.

---

Allen, John Eliot

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Smith, Warren DuPre, 41a

36 Structures in the dacitic flows at Crater Lake, Oregon: Jour. Geology, vol. 44, no. 6, pp. 737-744, 4 figs. incl. index map, Aug.-Sept. 1936.

38a Chromite deposits in Oregon with special chapters by Herbert Fulton Byram and Frederick William Lee: Oregon Dept. Geol. and Min. Ind. Bull. 9, 71 pp. (\*), 1 pl., 18 figs. incl. index maps, 1938.

38b Structures in the west coast chromite deposits (abstract): Geol. Soc. Oregon Country News Letter, vol. 4, no. 24, p. 277 (\*), Dec. 1938.

39a Geological features of west coast chromite deposits (abstract): Mining and Metallurgy, vol. 20, no. 386, p. 100, Feb. 1939.

39b First aid to fossils: Oregon Dept. Geol. and Min. Ind. Bull. 18, 28 pp. (\*), 20 figs. incl. index map of localities, Sept. 1939.

40a Chromite in Oregon (abstract): Geol. Soc. America Bull., vol. 51, no. 12, pt. 2, p. 2015, Dec. 1940.

40b Tectonics of the northern Walla Walla Mountains, Oregon (abstract): Geol. Soc. America Bull., vol. 51, no. 12, pt. 2, p. 2015, Dec. 1940.

41 Where is Oswego iron mine?: Geol. Soc. Oregon Country News Letter, vol. 7, no. 20, pp. 183-184 (\*), 1 pl., Oct. 1941.

42a Phantom Montavilla volcano: Geol. Soc. Oregon Country News Letter, vol. 8, no. 21, pp. 168-170 (\*), 1 pl., Nov. 1942.

42b Chromite deposits of Oregon: (In) Ore deposits as related to structural features, edited by W.H. Newhouse, Princeton Univ. Press, p. 116, 1942.

42c Igneous features of Juniper Ridge, Oregon (abstract): Geol. Soc. America Bull., vol. 53, no. 12, pt. 2, p. 1815, Dec. 1942.

AUTHOR INDEX - Allen to Allison

Allen, John Eliot (cont.)

43a Snow snails: Geol. Soc. Oregon Country News Letter, vol. 9, no. 5, p. 31 (\*), 1 fig., March 1943.

43b Humphrey's spiral gravity concentrator treats Oregon black sands: Ore.-Bin, vol. 5, no. 10, pp. 61-63, Oct. 1943.

44a Coos Bay coal - Oregon's forgotten resource: Geol. Soc. Oregon Country News Letter, vol. 10, no. 2, pp. 9-10 (\*); no. 3, pp. 15-16 (\*); no. 4, pp. 22-23 (\*), Jan.-Feb. 1944.

44b (Review of) Volcanoes of the Three Sisters region, Oregon Cascades, by Howel Williams: Geol. Soc. Oregon Country News Letter, vol. 10, no. 15, pp. 93-95 (\*), Aug. 1944.

44c War minerals in Oregon: Geol. Soc. Oregon Country News Letter, vol. 10, no. 19, pp. 117-118 (\*), Oct. 1944.

44d (and Baldwin, Ewart M.) Geology and coal resources of the Coos Bay quadrangle, Oregon: Oregon Dept. Geol. and Min. Ind. Bull. 27, 153 pp., 31 pl., 3 maps in pocket, 1944; (abstract) Am. Assoc. Petroleum Geologists Bull., vol. 28, no. 12, pp. 1779-1789, Dec. 1945.

45a Vanadium-bearing black sand deposit of middle Mesozoic age (abstract): Geol. Soc. Oregon Country News Letter, vol. 11, no. 4, p. 21 (\*), Feb. 1945.

45b Oregon's volcanic history: Geol. Soc. Oregon Country News Letter, Part 1, Ancient volcanism, vol. 11, no. 17, pp. 113-115 (\*); Part 2, Quaternary volcanism, vol. 11, no. 18, pp. 121-123 (\*), Nov.-Dec. 1945.

---

Allen, Maxwell Wilford

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---

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---

Allen, Victor T.

43 (and Nichols, Robert Leslie) Cowlitz high-alumina clay deposit, near Castle Rock, Washington. (abstract): Geol. Soc. America Bull., vol. 54, no. 12, p. 1823, Dec. 1943.

45 (and Nichols, Robert Leslie) Clay-pellet conglomerates at Hobart Butte, Lane County, Oregon: Jour. Sedimentary Petrology, vol. 15, pp. 25-33, April 1945.

---

Allison, Ira Shimmin

See also Hansen, Henry Paul, 42d

36 Late Pleistocene topographic correlations on the Pacific Coast: Geol. Soc. Oregon Country News Letter, vol. 2, no. 13, p. 10 (\*), July 1936; (abstracts) Pan-Am. Geologist, vol. 63, no. 4, p. 310, May 1935; Geol. Soc. America Proc. 1935, p. 333, June 1936.

37 Progress of glacial studies in the Pacific Northwest (abstract): Geol. Soc. America Proc. 1936, p. 318, June 1937.

39 Problem of Willamette Sound (abstract): Geol. Soc. America Bull., vol. 50, no. 12, pt. 2, p. 1945, Dec. 1939.

40a Stratigraphic relations of Willamette Valley fill (abstract): Geol. Soc. America Bull., vol. 51, no. 12, pt. 2, p. 2016, Dec. 1940.

40b Study of Pleistocene lakes of South Central Oregon: Carnegie Inst. Washington Yearbook, vol. 39, pp. 299-300, 1930-1940.

41a Erratics of the Willamette Valley area: Geol. Soc. Oregon Country News Letter, vol. 7, no. 12, pp. 115-116 (\*), June 1941.

Allison, Ira Shimmin (cont.)

41b Flint's fill hypothesis of origin of scabland: Jour. Geology, vol. 49, no. 1, pp. 54-73, 8 figs. incl. index map, Jan.-Feb. 1941; (abstracts) Geol. Soc. America Bull., vol. 51, no. 12, pt. 2, p. 2016, Dec. 1940; Jour. Geomorphology, vol. 4, no. 4, p. 336, Dec. 1941.

41c Work of wind in northern Lake County, Oregon (abstract): Geol. Soc. America Bull., vol. 52, no. 12, pt. 2, p. 1943, Dec. 1941.

41d Stratigraphic setting of the Fossil Lake (Oregon) fauna (abstract): Geol. Soc. America Bull., vol. 52, no. 12, pt. 2, p. 1979, Dec. 1941.

45 Pumice beds at Summer Lake, Oregon: Geol. Soc. America Bull., vol. 56, no. 8, pp. 789-807, Aug. 1945.

---

American Guide Series

See Federal Writers Project

---

Anderson, Alfred Leonard

41a Geology of the Idaho Almaden quicksilver mine near Weiser, Idaho: Idaho Bur. Mines and Geology Pamph. no. 55, 9 pp., 2 figs., 3 pls. (\*), April 1941.

41b Physiographic subdivisions of the Columbia Plateau in Idaho: Jour. Geomorphology, vol. 4, no. 3, pp. 206-222, 9 figs. incl index and relief maps, Oct. 1941.

---

Anderson, Charles Alfred

36 Volcanic history of the Clear Lake area, California: Geol. Soc. America Bull., vol. 47, no. 5, pp. 629-664, 7 pls. incl. geol. map, 8 figs. incl. geol. map, May 1936; (abstracts) Pan-Am. Geologist, vol. 64, no. 1, pp. 66-67, Aug. 1935; Geol. Soc. America Proc. 1935, pp. 343-344,  
-----

37 Recent faulting and volcanism, Medicine Lake Highland, California (abstract): Geol. Soc. America Proc. 1936, p. 299, June 1937.

39 Hat Creek (Calif.) lava flow (abstract): Geol. Soc. America Bull., vol. 50, no. 12, pt. 2, p. 1945, Dec. 1939.

40 (and Russell, Richard Dana) Tertiary formations of northern Sacramento Valley, California: California Jour. Mines and Geology, vol. 35, no. 3, pp. 219-253, 1 pl. geol. map, 14 figs. incl. index and relief maps, July 1939, (Jan. 1940).

41 Volcanoes of the Medicine lake Highland, California: California Univ. Dept. Geol. Sci. Bull., vol. 25, no. 7, pp. 347-422, 9 pls. incl. geol. map, 15 figs. incl. index, topog., and geol. maps, April 1941; (abstracts) Am. Mineralogist, vol. 22, no. 12, pt. 2, p. 1, Dec. 1937; vol. 23, no. 3, p. 166, March 1938; Geol. Soc. America Proc. 1937, p. 69, June 1938.

---

Anderson, Frank Marion

37 Synopsis of the Upper Cretaceous deposits (Chico series) in California and Oregon (abstracts): Am. Assoc. Petroleum Geologists Bull., vol. 21, no. 12, p. 1612, Dec. 1937; Geol. Soc. America Bull., vol. 49, no. 12, pt. 2, p. 1863, Dec. 1938.

38 Lower Cretaceous deposits in California and Oregon: Geol. Soc. America Spec. Paper 16, x, 339 pp., 85 pls. incl. geol. map, 6 figs., Nov. 1938; (abstracts) Proc. 1936, pp. 60-61, June 1937; Early Cretaceous rocks of west coast of America, Pan-Am. Geologist, vol. 67, no. 2, pp. 151-152, March 1937.

40 Cretaceous sedimentary succession in California and Oregon: 6th Pacific Sci. Cong. 1939, Proc., vol. 1, pp. 393-398, 1940.

42 Record of the term "Chico group" in geologic literature (abstract): Geol. Soc. America Bull., vol. 53, no. 12, pt. 2, p. 1815, Dec. 1942.

AUTHOR INDEX - Anderson to Arnold

Anderson, Frank Marion (cont.)

- 45 Knoxville series in the California Mesozoic: Geol. Soc. America Bull., vol. 56, pp. 909-1014, 15 pls., Oct. 1945.

Anderson, Tempest

- 03 Volcanic studies: London, 1903.  
(mentions Crater Lake)

Antevs, Ernst Valdemar

- 36 Correlations of late Quaternary chronologies: 16th Internat. Geol. Cong. 1933, Rept. vol. 1, pp. 213-216, 1936.

- 37 Climate and early man in North America: (In) Early man, edited by G.G. MacCurdy, J.B. Lippincott Co., pp. 125-132, 1 pl., 1 fig., 1937; Pan-Am. Geologist, vol. 67, no. 5, pp. 333-340, 1 fig., June 1937; (abstract) vol. 68, no. 1, pp. 79-80, Aug. 1937.

- 38a Climatic variations during the last glaciation in North America: Am. Meteorological Soc. Bull., vol. 19, no. 5, pp. 172-176, May 1938.

- 38b Rainfall and tree growth in the Great Basin: Carnegie Inst. Washington Pub. no. 469, 95 pp., 7 figs., 2 pls., 1938.

- 41 Climatic variation in Southwest during past 75,000 years (abstract): Pan-Am. Geologist, vol. 76, no. 1, pp. 73-75, Aug. 1941.

- 45 Postpluvial climatic history of the West (abstract): Geol. Soc. America Bull., vol. 56, no. 12, pt. 2, pp. 1144-1145, Dec. 1945.

Apfel, Earl Taylor

- 41 Distribution and stratigraphy of the loess (abstract): Geol. Soc. America Bull., vol. 52, no. 12, pt. 2, p. 2021, Dec. 1941.

Appleton, John Bargate

- 39 The Pacific Northwest, a selected bibliography covering completed research in the natural resources and socio-economic fields, an annotated list of in-progress and contemplated research, together with critical comments thereon, 1930-39: xx, 456 pp., Northwest Regional Council, Portland, Oregon, 1939.

Arneson, James J.

- 37a No Title (Birch Creek): Geol. Soc. Oregon Country News Letter, vol. 3, no. 3, p. 28 (\*), Feb. 1937.

Arneson, Joy T. (Maj.)

- 37b Umatilla County (Oreg.) elephants: Geol. Soc. Oregon Country News Letter, vol. 3, no. 10, p. 104 (\*), May 1937.

- 37c Garnets, Bear Creek, Oregon: Mineralogist, vol. 5, no. 6, p. 9, June 1937.

- 42 Fossil beds reveal tropical climates: Mineralogist, vol. 10, p. 154, May 1942.

Arnold, Chester Arthur

- 36a Some fossil species of Mahonia from the Tertiary of eastern and southeastern Oregon: Michigan Univ. Mus. Paleontology Contr., vol. 5, no. 4, pp. 57-66, 3 pls., July 1936.

AUTHOR INDEX - Arnold to Baker

Arnold, Chester Arthur (cont.)

36b The occurrence of Cedrela in the Miocene of western America: Am. Midland Naturalist, vol. 17, no. 6, pp. 1018-1021, 11 figs., Nov. 1936.

37 Observations on the fossil flora of eastern and southeastern Oregon; Pt. 1: Michigan Univ. Mus. Paleontology Contr., vol. 5, no. 8, pp. 79-102, 10 pls., 3 figs., Oct. 1937.

Atwill, Edward Robert

42 Progress of stratigraphic studies in California: Am. Assoc. Petroleum Geologists Bull., vol. 26, no. 2, pp. 153-161, 7 figs. incl. aerial photos, Feb. 1942.

Atwood, Wallace Walter, Jr.

35 The glacial history of an extinct volcano, Crater Lake National Park: Jour. Geology, vol. 43, no. 2, pp. 142-168, 24 figs. incl. index map, Feb.-March 1935; with slight alterations reprinted in Smithsonian Inst. Ann. Rept. 1935, Pub. 3348, pp. 303-320, 6 pls., 13 figs., 1936; (abstracts) Pan-Am. Geologist, vol. 65, no. 2, p. 159, March 1936; Geol. Soc. America Proc. 1935, p. 435, June 1936.

37 Crater Lake and Yosemite through the ages: Nat. Geog. Mag., vol. 71, no. 3, pp. 326-342, 21 figs., March 1937.

40 The physiographic provinces of North America: xvi, 536 pp., 281 figs., 5 pls., Ginn and Co., Boston, 1940.

Averill, Charles Volney

35 Mines and mineral resources of Siskiyou County: California Jour. Mines and Geology, vol. 31, no. 3, pp. 255-338, 1 pl. index map, 13 figs., July 1935.

40 Economic geology of California and southern Oregon (abstract): Geol. Soc. America Bull., vol. 51, no. 12, pt. 2, p. 2017, Dec. 1940.

Avery, Oliver Perry

37 How a forest turned to agate, an episode of 35 million years ago: Mineralogist, vol. 5, no. 4, pp. 3-4, 26-27, 2 figs., April 1937.

38 A Pleistocene elephant trap: Mineralogist, vol. 6, no. 12, p. 28, Dec. 1938.

Axelrod, Daniel I.

See also Chaney, Ralph Works, 44

39 Late Tertiary vegetation and climate of the Great Basin and border areas (abstract): Geol. Soc. America Bull., vol. 50, no. 12, pt. 2, pp. 1945-1946, Dec. 1939.

40 Late Tertiary floras of the Great Basin and border areas: Torrey Bot. Club Bull., vol. 67, no. 6, pp. 477-487, June 1940.

Bain, H. Foster

45 Pattern for western steel production: U.S. Bur. Mines Inf. Circ. 7315, 35 pp. (\*), 4 figs., 1945.

Baker, Frank Collins

42 A new Gyraulus from the Pleistocene of California and a new Parapholyx from a supposed Pliocene deposit in Oregon: Nautilus, vol. 55, no. 4, pp. 130-132, 3 figs., April 1942.

Baldwin, Ewart Merlin

See also Allen, John Eliot, 44d

Wilkinson, William Donald, 45

39 Late Cenozoic diastrophism along the Olympic Coast: State College of Washington, Master's thesis, 45 pp. (\*), 31 pl., map, diagrs., Pullman, 1939.

45 Some revisions of the late Cenozoic stratigraphy of the southern Oregon Coast: Jour. Geology, vol. 53, pp. 35-46, Jan. 1945.

Ball, Sidney H.

40-43 Gem stones: U.S. Bur. Mines Minerals Yearbook for calendar year, 1940, p. 1454; 1941, pp. 1400-1401; 1942, pp. 1518-1519; 1943, p. 1560; 1944, p. 1516.

Bandy, Orville Lee

41 Invertebrate paleontology of Cape Blanco: Oregon State College, Master's thesis, 137 pp. (\*), incl. 9 plates, 1 map, 12 tables, 2 diagrs., 1 mounted photo., bibliography, Corvallis, 1941.

44 Eocene foraminifera from Cape Blanco, Oregon: Jour. Paleontology, vol. 18, pp. 366-377, pls. 60-62, July 1944.

Barr, E. M.

39a Coon Creek trip: Geol. Soc. Oregon Country News Letter, vol. 5, no. 11, pp. 102-105 (\*), June 1939.

39b Founder's Day trip (Geological Society of the Oregon Country): Geol. Soc. Oregon Country News Letter, vol. 5, no. 13, pp. 121-126 (\*), July 1939.

39c Cape Lookout trip (Geological Society of the Oregon Country): Geol. Soc. Oregon Country News Letter, vol. 5, no. 14, pp. 133-135 (\*), July 1939.

Barsigian, F. M.

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Barton, J. Tracy

42 "Amelia" and "Shirt Tail Gulch" in Mormon Basin: Oregon Hist. Quarterly, vol. 43, pp. 228-231, Sept. 1942.

Bassett, George Robert

45 Concentration of Oregon chromite-bearing sands: Univ. of Washington, Bachelor of Science thesis, 59 pp. (\*), 11 tabs., 16 pls., Seattle, 1945.

Beard, Charles N.

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Beck, George Frederick

36a Limerock zone of Columbia Basin: Mineralogist, vol. 4, no. 11, pp. 12, 14, Nov. 1936.

36b Spruce in the western Miocene: Northwest Sci., vol. 10, no. 4, pp. 18-20, Nov. 1936.

36c Wood occurring in the Ginkgo and associated petrified forests; No. 1 - The Ginkgo: Mineralogist, vol. 4, no. 12, pp. 7-8, Dec. 1936.

37a Spruce in the western Miocene: Geol. Soc. Oregon Country News Letter, vol. 3, no. 5, pp. 47-50 (\*), March 1937.

Beck, George Frederick (cont.)

37b Camels of the Columbia Plateau: Mineralogist, vol. 5, no. 4, pp. 5-6, 1 fig., March 1937.

37c Formation of the Columbia Basin; parade of extinct mammals: Mineralogist, vol. 5, no. 5, pp. 7-8, May 1937.

37d Determination of fossil woods; Part II, The oaks: Mineralogist, vol. 5, no. 2, pp. 9-10, 1 fig., Feb. 1937; Part III, The elms: vol. 5, no. 3, pp. 7-8, 1 fig., March 1937; Part IV, Walnut, hickory, persimmon: vol. 5, no. 4, pp. 7-8, 1 fig., April 1937; Part V, Beech, sycamore, alder: vol. 5, no. 6, pp. 7-8, 1 fig., June 1937.

37e Western conifers: Mineralogist, vol. 5, no. 10, pp. 7-8, 1 fig., Oct. 1937.

38a Basswood in Ellensburg formation: Mineralogist, vol. 6, no. 1, p. 13, Jan. 1938.

38b Additions to the late Tertiary floras of the Pacific Northwest: Mineralogist, vol. 6, no. 8, pp. 9, 21-22, 4 figs., Aug. 1938.

38c Sacred cedar, fossil: Mineralogist, vol. 8, no. 5, p. 234, May 1940.

40 Late Tertiary stratigraphy and paleontology of south-central Washington and adjacent Oregon (abstract): Geol. Soc. America Bull., vol. 51, no. 12, pt. 2, p. 2018, Dec. 1940.

42a Keteleeria and Cedrus at Bonneville: Geol. Soc. Oregon Country News Letter, vol. 8, no. 11, pp. 78-80 (\*), June 1942.

42b Additions to the Gray Ranch wood flora: Geol. Soc. Oregon Country News Letter, vol. 8, no. 12, pp. 88-89 (\*), 1942.

42c Tertiary juglandaceous woods: Geol. Soc. Oregon Country News Letter, vol. 8, no. 14, pp. 103-106 (\*); no. 18, pp. 143-145 (\*), 1942.

44a Late Tertiary woods of southwestern Idaho and adjacent Oregon: Geol. Soc. Oregon Country News Letter, vol. 10, no. 12, pp. 73-74 (\*), 1944.

44b Fossil woods of Oregon: Geol. Soc. Oregon Country News Letter, vol. 10, no. 21, pp. 127-128 (\*), 1944.

45a Nyssa woods of the Pacific Northwest Tertiary: Northwest Sci., vol. 19, no. 1, pp. 11-13, Feb. 1945.

45b Ancient forest trees of the sage-brush area in Central Washington: Jour. of Forestry, vol. 43, no. 5, pp. 334-338, May 1945.

45c Tertiary coniferous woods of Western North America: Northwest Sci., vol. 19, no. 3, pp. 67-69; no. 4, pp. 89-102, 4 pls., Aug.-Nov. 1945.

---

Beck, R. Stanley

43 Eocene foraminifera from the Cowlitz River, Lewis County, Washington: Jour. Paleontology, vol. 17, no. 6, pp. 584-614, pls. 98-109, 4 figs., Nov. 1943.

---

Becker, C. P.

37 Iridescent pumice, a new kind in Oregon: Rocks and Minerals, vol. 12, no. 3, p. 69, March 1937.

---

Bell, L. Gordon

45 Preliminary report on laterite deposits and occurrences in the Portland region, Oregon: U.S. Geol. Survey Strategic Minerals Inv., 16 pp. (\*), 8 figs., 7 tabs., July 1945.

Bennett, William Alfred Glen

39 Bibliography and index of geology and mineral resources of Washington, 1814-1936: Washington Dept. Cons. and Devel., Div. Geology Bull. 35, 140 pp., 1939.

Bentson, Herdis

See Keen, Angeline Myra, 39, 44

Bernewitz, Max Wilhelm von

See also Davis, C. W., 38b, 38c

37 Occurrence and treatment of mercury ore at small mines: U.S. Bur. Mines Inf. Circ. 6966, 40 pp. (\*), 17 figs., 1937.

38 The treatment and sale of black sands: U.S. Bur. Mines Inf. Circ. 7000, pp. 1-21 (\*), March 1938.

43 Handbook for prospectors and operators of small mines, 4th ed. revised by Harry Carl Chellson: 547 pp., illus., McGraw-Hill Book Co., Inc., New York, 1943.

Berthiaume, Sheridan Alba

See also Merriam, Charles Warren, 40, 43

38 Orbitoids from the Crescent formation (Eocene) of Washington: Jour. Paleontology, vol. 12, no. 5, pp. 494-497, 1 pl., Sept. 1938.

Betz, Frederick, Jr.

40-42 (and Hess, Harry Hammond) The floor of the North Pacific Ocean: Geog. Review, vol. 32, no. 1, pp. 99-116, 1 pl. index map, 4 figs., Jan. 1942; (abstract) Am. Geophys. Union Trans. 21st Ann. Mtg. Pt. 2, pp. 348-349 (\*), National Research Council, July 1940.

41-42 Chromite: U.S. Bur. Mines Minerals Yearbook for Calendar Year 1941, pp. 603-616; 1942, pp. 636-637.

Blackwelder, Richard Eliot

See Frizzell, Donald Leslie, 33

Bogue, Richard

40 (and Hodge, Edwin Thomas) Cascade andesites of Oregon: Am. Mineralogist, vol. 25, no. 10, pp. 627-665, 10 figs., Oct. 1940.

Bowles, Oliver

37 Asbestos: U.S. Bur. Mines Bull. 403, pp. 23, 29, 1937.

41-44 (and Petron, A. C.) Asbestos: U.S. Bur. Mines Minerals Yearbook for Calendar Year 1941, p. 1430; (and Barsigian, F. M.) 1942, p. 1426; 1943, p. 1475; (and Marsh, D. I.) 1944, p. 1436.

Bowman, Flora Jean

40 The geology of the north half of Hampton quadrangle, Oregon: Oregon State College, Master's thesis, 71 pp. (\*), incl. 2 illus., 21 mounted and 7 folded photographs, 2 maps (1 folded), bibliography, Corvallis, 1940.

43 Vertebrate fossils from the Ironside Mountain quadrangle, Oregon: (Appendix in) The geology of the northeast quarter of the Ironside Mountain quadrangle, Baker and Malheur Counties, Oregon, by Lowry, Wallace D., Univ. of Rochester, Doctorate thesis, 13 pp. (\*), 1 fig., 2 pls., Rochester, 1943.

Bristol, F. I.

44 Bristol silica enterprise; deposit yields variety of special quartz products: Mining Congress Jour., vol. 30, pp. 33-35, Dec. 1944.

---

Brode, J. Stanley

38 The denizens of Crater Lake: Northwest Sci., vol. 12, no. 3, pp. 50-57, Aug. 1938. (gives fluctuations of level, 1892-1936).

---

Brogan, Phil

40a New find in Oregon; agates of the high desert: Mineralogist, vol. 8, p. 14, Jan. 1940.

40b "Big game" hunting in the west: Mineralogist, vol. 8, p. 405, Oct. 1940.

36-45 Numerous popular articles on geology appearing in the Oregonian, Portland, 1936-1946.

---

Brooks, Betty P. Watt

35 Fossil plants from Sucker Creek, Idaho: Carnegie Mus. Annuals, vol. 24, ser. 164, Dec. 1934 to Aug. 1935; art. 9, pp. 275-336, 21 pls., July 1935.

---

Brown, Benjamin H.

37 The State-line earthquake at Milton and Walla Walla: Seismol. Soc. America Bull., vol. 27, no. 3, pp. 205-209, 4 figs. incl. index map, July 1937; Northwest Sci., vol. 11, no. 3, pp. 62-64, (abstract) pp. 75-76, Aug. 1937.

---

Brown, Randall Emory

See also Waters, Aaron Clement

42 Some manganese deposits in the southern Oregon coastal region: Oregon Dept. Geol. and Min. Ind. Short Paper no. 9, 6 pp. (\*), 2 figs. incl. geol. map, 1942.

---

Brown, Roland Wilbur

See also Read, Charles Brian, 37

36a Field identification of the fossil ferns called Tempskya: Washington Acad. Sci. Jour., vol. 26, no. 2, pp. 45-52, 6 figs., Feb. 1936.

36b The genus Glyptostrobus in America: Washington Acad. Sci. Jour., vol. 26, no. 9, pp. 353-357, Sept. 1936.

37a Additions to some fossil floras of the western United States: U.S. Geol. Survey Prof. Paper 186-J, pp. 11, 163-206, 19 pls., 1937.

37b Fossil legumes from Bridge Creek, Oregon: Washington Acad. Sci. Jour., vol. 27, no. 10, pp. 414-418, 2 figs., Oct. 1937.

37c Further additions to some fossil floras of the western United States: Washington Acad. Sci. Jour., vol. 27, no. 12, pp. 506-517, 13 figs., Dec. 1937.

40a New species and changes of name in some American fossil floras: Washington Acad. Sci. Jour., vol. 30, no. 8, pp. 344-356, 18 figs., Aug. 1940.

40b A bracket fungus from the late Tertiary of southwestern Idaho: Washington Acad. Sci. Jour., vol. 30, no. 10, pp. 422-424, 4 figs., Oct. 1940.

43 Some prehistoric trees of the United States: Jour. Forestry, vol. 41, no. 12, pp. 861-868, 29 figs., Dec. 1943.

---

Brown, S. M.

See Kelley, W. P., 39

---

Buddhue, John Davis

37a Josephinite, awaruite; Mineralogist, vol. 5, no. 3, pp. 3-4, 25-27, 1 fig., March 1937.

37b Oregon irons: Mineralogist, vol. 4, no. 9, p. 24, Sept. 1937.

41 A possible explanation of the formation of "thunder eggs": Mineralogist, vol. 9, no. 9, p. 338, 1 fig., Sept. 1941.

---

Buddington, Arthur Francis

See Callaghan, Eugene, 38

---

Burch, Albert

See also Strayer, W. H., 39, 41, 43  
Anon., 43b

42 Development of metal mining in Oregon: Oregon Hist. Quarterly, vol. 43, no. 2, pp. 105-128, June 1942.

---

Burchard, Ernest Francis

See also McCaskey, Hiram Dryer

43 Results of exploration for iron ore in far western states (abstract): Economic Geology, vol. 38, pp. 85-86, Jan.-Feb. 1943.

---

Butler, Bert Sylvanus

See also Gardner, E. D., 38

38 Copper mining in North America: Pt. 2, Geology of copper deposits of North America: U.S. Bur. Mines Bull. 405, pp. 37-85, 2 pls., index and geol. maps, 9 figs., incl. geol. sketch maps, 1938.

---

Buwalda, John Peter

38 Earth history of a portion of the Pacific Northwest: Carnegie Inst. Washington Pub. 501, pp. 695-710, 1938.

---

Byerly, Perry

40a Seismicity of the northern Pacific Coast of the United States: Geol. Soc. America Bull., vol. 51, no. 2, pp. 255-260, 1 pl. index map, 2 figs., index maps, Feb. 1940.

40b Earthquake epicenters and structure of the Pacific region of North America (northern part) (abstract): 6th Pacific Sci. Cong. 1939, Proc., vol. 1, pp. 111-112, 1940.

---

Byram, Herbert Fulton

38 The present commercial aspect of western chrome ores; (In) Chromite deposits in Oregon, by John Eliot Allen: Oregon Dept. Geology and Min. Ind. Bull. no. 9, pp. 1-7, 1938.

---

Callaghan, Eugene

38 (and Buddington, Arthur Francis) Metalliferous mineral deposits of the Cascade Range in Oregon: U.S. Geol. Survey Bull. 893, viii, 141 pp., 22 pls. incl. index map and geol. maps, 7 figs. incl. geol. sketch map, 1938.

---

Camp, Charles Lewis

37 (and Hanna, G. Dallas) Methods in paleontology: xxiii, 153 pp., Univ. California Press, Berkeley, 1937.

40a (and VanderHoof, Vertress Lawrence) Bibliography of fossil vertebrates, 1928-1933: Geol. Soc. America Spec. Paper no. 27, 503 pp., Nov. 1940.

Camp, Charles Lewis (cont.)

40b History of vertebrate paleontology on the West Coast: 6th Pacific Sci. Cong. 1939, Proc., vol. 3, pp. 643-646, 1940.

42 (and Taylor, D. N., and Welles, S. P.) Bibliography of fossil vertebrates 1934-1938: Geol. Soc. America Special Paper no. 42, 663 pp., Nov. 1942.

Campbell, Ian

44 (Review of) The geology of Crater Lake National Park, Oregon, by Howell Williams: Geog. Rev. vol. 34, pp. 137-138, Jan. 1944.

Cannon, Ralph Smyser, Jr.

41 (and Grimaldi, Frank Saverio) Scheelite-powellite minerals of the Seven Devils district, Idaho (abstract): Econ. Geology, vol. 36, no. 8, pp. 839-840, Dec. 1941.

Capps, Stephen Reid

41 Faulting in western Idaho and its relation to the high placer deposits: Idaho Bur. Mines and Geology Pamph. 56, 20 pp. (\*), 1 pl. geol. sketch map, June 1941.

Carr, Martha S.

See Ross, Clyde Polhemus, 41b

Case, Robert Ormond

45 (and Case, Victoria) Last Mountains, the story of the Cascades: 136 pp., pls., Doubleday, Doran & Co., Inc., Garden City, New York, 1945.

Case, Victoria

See Case, Robert Ormond, 45

Catlin, Eva

37 Clackamas River and vicinity: Geol. Soc. Oregon Country News Letter, vol. 3, no. 23, pp. 252-255 (\*), Dec. 1937.

Chaney, Ralph Works

See also Merriam, John Campbell, 42

36a Age of the Clarno formation (Oregon) (abstracts): Pan-Am. Geologist, vol. 64, no. 1, p. 71, Aug. 1935; Geol. Soc. Oregon Country News Letter, vol. 2, no. 11, p. 7 (\*), June 1936; Geol. Soc. America Proc., 1935, p. 348, June 1936.

36b The succession and distribution of Cenozoic floras around the northern Pacific Basin: Essays in geobotany, pp. 55-85, Univ. California, Berkeley, 1936.

36c Factor of distribution in the interpretation of Tertiary floras (abstract): Geol. Soc. America Proc. 1935, pp. 382-383, June 1936.

36d Plant distribution as a guide to age determination: Washington Acad. Sci. Jour., vol. 26, no. 8, pp. 313-324, 3 figs., paleogeog. maps, Aug. 1936.

37a Pliocene flora from eastern Oregon (abstract): Geol. Soc. America Proc. 1936, p. 356, June 1937.

37b Use of Tertiary plants in correlation (abstract): Geol. Soc. America Proc. 1936, p. 391, June 1937.

37c Cycads from the upper Eocene of Oregon (abstract): Geol. Soc. America Proc. 1936, p. 397, June 1937.

AUTHOR INDEX - Chaney to Clark

Chaney, Ralph Works, (cont.)

38a Ancient forests of Oregon; a study of earth history in western America: Carnegie Inst. Washington Pub. 501, pp. 631-648, 2 pls., 4 figs. index and paleogeog. maps, 1938.

38b The Deschutes flora of eastern Oregon: Carnegie Inst. Washington Pub. 476, (Contr. Paleontology) pp. 185-216, 7 pls. incl. geol. sketch map, 1938; (preprint) April 1938.

38c Paleoecological interpretations of Cenozoic plants in western North America: Bot. Rev., vol. 9, no. 7, pp. 371-396, July 1938.

38d (and others) A summary of the climatic data in the papers on Cenozoic paleontology of western North America: Mimeographed paper, 12 leaves (\*), distributed by Blue Hill Observatory, Harvard Univ., for the American Committee of the International Commission of Climatic Variations, Amsterdam, July 1938; also published in Cong. Internat. Géographie Amsterdam 1938, Comptes Rendus, tome 1, pp. 579-587, 1938.

40 Tertiary forests and continental history: Geol. Soc. America Bull., vol. 51, no. 3, pp. 469-488, 2 pls., 3 figs. incl. index map, March 1940.

41a Age of the Dalles formation (Oregon) (abstract): Geol. Soc. America Bull., vol. 52, no. 12, pt. 2, p. 1945, Dec. 1941.

41b Notes on field studies in the Miocene of Columbian Plateau (abstract): Am. Jour. Botany, vol. 28, no. 10, Supp. p. 8, Dec. 1941.

42 Topographic significance of facies difference in the Miocene floras of Oregon (abstract): Geol. Soc. America Bull., vol. 53, no. 12, pt. 2, p. 1798, Dec. 1942.

44 (and Condit, Carlton, and Axelrod, Daniel I.) Pliocene floras of California and Oregon: Chapter 9, The Alvord Creek flora, pp. 225-262; Chapter 11, The Dalles flora, pp. 285-322; Chapter 12, The Troutdale flora, pp. 323-352; Carnegie Inst. Washington Pub. 553 (Contr. Paleontology), 407 pp., 4 figs., 64 pls., 34 tbls., 1944.

---

Chang, G. L.

31 The active and recently extinct volcanoes of North America: Volcano Letter 363, pp. 1-4, 3 figs., topog. maps, Dec. 1931.

---

Chapman, J. Roy

41 Agate collections: Mineralogist, vol. 9, pp. 90-91, March 1941.

---

Chappell, Walter M.

36 The effect of Miocene lavas on the course of Columbia River in central Washington: Jour. Geology, vol. 44, no. 3, pp. 379-386, 2 figs. incl. index map, April-May, 1936.

---

Clark, Bruce Lawrence

36a (and Vokes, Harold Ernest) Summary of marine Eocene sequence of western North America: Geol. Soc. America Bull., vol. 47, no. 6, pp. 851-878, 2 pls., 3 figs., June 1936; (abstract) Proc. 1935, p. 70, June 1936.

36b Status of correlation of marine Eocene of western North America (abstracts): Pan-Am. Geologist, vol. 63, no. 5, p. 373, June 1935; Geol. Soc. America Proc. 1935, p. 411, June 1936.

AUTHOR INDEX - Clark to Collins

Clark, Bruce Lawrence (cont.)

40 Evolution of the genus Astrodapsis on the West Coast (U.S.) (abstract): Geol. Soc. America Bull., vol. 51, no. 12, pt. 2, p. 1981, Dec. 1940.

---

Clark, Hubert Lyman

37 New sea urchin from the "Oligocene" of Oregon: Geol. Soc. Oregon Country News Letter, vol. 3, no. 9, p. 97 (\*), May 1937; (abstract) Geol. Soc. America Proc. 1936, p. 395, June 1937; San Diego Soc. Nat. History Trans., vol. 8, no. 28, pp. 367-374, 1 pl., Dec. 1937.

---

Clark, Jane Townley

44 Index to descriptive catalog of earthquakes of the Pacific Coast of the United States, 1769-1928: Seismol. Soc. America Bull., vol. 34, p. 35-62, Jan. 1944. (Earthquakes in Oregon, pp. 55-56)

---

Clarke, Frank Wigglesworth

24 Composition of the river and lake waters of the United States: U.S. Geol. Survey Prof. Paper 135, pp. 159-163, 169-180, 186-189, tbls., 1924.

---

Clemmer, J. B.

40 (and Clemmons, B. H.) Beneficiation by flotation of Willamette Valley limestones of Oregon: Oregon Dept. Geol. and Min. Ind. Short Paper No. 4, 8 pp. (\*), 3 tbls., 1940.

---

Clemmons, B. H.

See Clemmer, J. B., 40

---

Colbert, Edwin Harris

37 The Pleistocene mammals of North America and their relations to Eurasian forms: (In) Early man (see MacCurdy, George Grant, 37), Acad. Nat. Sci. Philadelphia, pp. 173-184, 2 pls., 1 fig. index map, J. B. Lippincott Co., Philadelphia, 1937; (abstract) Pan-Am. Geologist, vol. 67, no. 5, pp. 375-378, June 1937.

38 Pliocene peccaries from the Pacific Coast region of North America: Carnegie Inst. Washington Pub. 487, pp. 241-269, 6 pls., 4 figs., preprint, May 1938.

---

Colburn, Lloyd

45 Friday's Ranch, Oregon: Rocks and Minerals, vol. 20, no. 11, p. 531, Nov. 1945.

---

Coleman, Arthur Phileman

41 The last million years; a history of the Pleistocene in North America: Edited by George Frederick Kay, with a foreword by Elwood S. Moore, 216 pp., illus., Toronto, Canada, Univ. Toronto Press, 1941.

---

Collier, Arthur James

29 Memorial of Joseph Silas Diller: Geol. Soc. America Bull., vol. 40, no. 1, pp. 61-79, 1 pl. port., March 1929.

---

Collins, J. Russell

See also Mazama Research Committee, 36, 38, 43

AUTHOR INDEX - Collins to Cressman

Collins, J. Russell (cont.)

37 (and Richards, Carl P., and Phillips, Kenneth N.) Glaciers, with a special reference to work of Mazama Research Committee: Geol. Soc. Oregon Country News Letter, vol. 3, no. 22, pp. 236-238 (\*), Nov. 1937.

Condit, Carlton

See Chaney, Ralph Works, 44

Coombs, Howard Abbott

See also Goodspeed, George Edward, 37c

33 Volcanic sequence and geomorphology of Mount Rainier (abstracts): Pan-Am. Geologist, vol. 57, no. 5, p. 370, June 1932; Geol. Soc. America Bull., vol. 44, pt. 1, p. 148, Feb. 1933.

35 The physiography of western Washington: Assoc. Pacific Coast Geographers Yearbook, vol. 1, p. 20, 1935.

36 The geology of Mount Rainier National Park: Washington Univ. Pub. in Geology, vol. 3, no. 2, pp. 131-212, 2 pls. incl. geol. map, 27 figs., July 1936; (abstracts) Geol. Soc. America Proc. 1934, p. 336, June 1935; Proc. 1936, p. 321, June 1937.

38 Mt. Baker and Mt. Rainier in Washington (abstract): Geol. Soc. America Bull., vol. 49, no. 12, pt. 2, p. 1874, Dec. 1938.

39 Mt. Baker, a Cascade volcano: Geol. Soc. America Bull., vol. 50, no. 10, pp. 1493-1509, 2 pls., 3 figs., incl. index and geol. sketch map, Oct. 1939.

Coughlin, G. P.

See Iverson, H. G., 45

Crandall, Lynn

See Stearns, Harold Thornton, 38

Cressman, Luther Sheeleigh

36a Archaeological survey of the Guano Valley region in southeastern Oregon: Oregon Univ. Monographs, Studies in Anthropology, no. 1, pp. 1-48, with map, June 1936.

36b Bibliography of publications on the Indians of Oregon and notes on methods of excavation and classification of specimens: Inf. Bull. no. 1 (\*), issued by the Oregon State Mus. Anthropology, Oregon, Eugene, June 1936.

37a Petroglyphs and their interpretation: Geol. Soc. Oregon Country News Letter, vol. 3, no. 6, pp. 60-61 (\*), March 1937.

37b (Review of) The relation of North American prehistory to post-glacial climatic fluctuations, by Reginald Fisher: Am. Anthropologist, vol. 39, no. 2, June 1937.

37c Petroglyphs of Oregon: Oregon Univ. Monographs, Studies in Anthropology, no. 2, Eugene, June 1937.

37d The Wikiup Damsite; no. 1, Knives: Am. Antiquity, vol. 3, no. 1, July 1937.

38a (and Perry, Walter J.) Charcoal cave, an archaeological puzzle: Oregon Hist. Quarterly, vol. 39, no. 1, pp. 39-49, March 1938.

38b Early man and culture in the northern Great Basin: Carnegie Inst. Washington Yearbook no. 37, for the year 1937-1938, pp. 341-344, 1938.

39a Archaeological research in Oregon: The Commonwealth Rev., vol. 20, no. 5, Jan. 1939.

39b Report of the Committee on Research - 1939: Am. Philos. Soc. Yearbook for 1939, pp. 194-197, 1939

AUTHOR INDEX - Cressman to Cushman

- Cressman, Luther Sheeleigh (cont.)
- 39c (and others) Early man and culture in the northern Great Basin region of south-central Oregon: Carnegie Inst. Washington Yearbook 38, 1938-1939, pp. 314-317, 1939.
- 39d Evidence of early cave men in Oregon, U.S.A.: Discovery, ns. vol. 2, p. 186, April 1939.
- 40a Early man in the northern part of the Great Basin of south-central Oregon: 6th Pacific Sci. Cong. 1939, Proc. vol. 4, pp. 169-175, 1940; (abstract) Am. Philos. Soc. Yearbook 1939, pp. 194-196, 1940.
- 40b Early man in Oregon - Archaeological studies in the northern Great Basin.
- (1) Early man and culture in the northern Great Basin region in south-central Oregon: Preliminary Rept., pp. 1-15,
  - (2) (and Alex D. Krieger) Atlatls and associated artifacts from south-central Oregon: pp. 16-52,
  - (3) (and Howel Williams) Early man in south-central Oregon; Evidence from stratified sites: pp. 53-78.
- Studies in Anthropology, Oregon State System of Higher Education, no. 3, Eugene, Aug. 1940.
- 40c Aboriginal life of Oregon and some responses to the natural environment: Physical and Economic Geography of Oregon, Chapter VIII, W.D. Smith - ed.; Oregon State System of Higher Education, Corvallis, pp. 125-131, 1940.
- 40d Studies on early man in south-central Oregon: Carnegie Inst. Washington Yearbook no. 39, pp. 300-306, Dec. 1940.
- 40e Report of the Committee on Research: Am. Philos. Soc. Yearbook for 1940, pp. 152-156, 1940.
- 41 (and W.S. Laughlin) A probable association of mammoth and artifacts in the Willamette Valley, Oregon: Am. Antiquity, vol. 6, no. 4, pp. 339-342, April 1941.

42 Archaeological researches in the northern Great Basin: Carnegie Inst. Washington Pub. 538, 158 pp., 1942.

44a New information on south-central Oregon atlatls: The Master Key, pp. 169-179, Nov. 1944.

44b Reply to A.D. Krieger's review of L.S. Cressman's archaeological researches in the northern Great Basin: Am. Antiquity, vol. 10, no. 2, pp. 206-211, Oct. 1944.

43 Results of recent archaeological research in the northern Great Basin region of south-central Oregon: Am. Philos. Soc. Proc., vol. 86, no. 2, pp. 236-246, 13 figs., incl. index, physiog. maps, Feb. 1943.

Cross, Aureal T.

See Schopf, James M., 45

Culver, Harold Eugene

36 The geology of Washington (State); Pt. 1, General features of Washington geology (to accompany the preliminary geologic map, 1926): Washington Dept. Conserv. and Devel., Div. Geology Bull. 32, 70 pp., 1 pl. accompanying geol. map, 1936.

37 Extensions of the Ringold formation: Northwest Sci., vol. 11, no. 3, pp. 57-60, Aug. 1937.

Cushman, Joseph Augustine

40 (and Frizzell, Donald Leslie) Two new species of foraminifera from the Oligocene, Lincoln formation, of Washington: Cushman Lab. Foram. Research Contr., vol. 16, pt. 1, pp. 42-43, 2 figs., March 1940.

AUTHOR INDEX - Cushman to Dammann

Cushman, Joseph Augustine (cont.)  
43 (and Frizzell, Donald Leslie)  
Foraminifera from the type areas of Lincoln  
(Oligocene) of Washington: Cushman Lab.  
Foram. Research Contr., vol. 19, pt. 4,  
pp. 79-89, 2 pls., 1 fig. incl. index map,  
Dec. 1943.

---

Dachnowski-Stokes, Alfred Paul

36 Peat land in the Pacific Coast  
States in relation to land and water  
resources: U.S. Dept. Agr. Misc. Pub.  
248, 68 pp., 4 pls. incl. maps, 2 figs.  
maps, Oct. 1936.

---

Dahle, K. N.

41 A vacation in Oregon: Mineralogist,  
vol. 9, pp. 331-332, Sept. 1941.

---

Dake, Henry Carl

See also Fernquist, Charles O., 33

36a Willamette meteorite, an erratic:  
Mineralogist, vol. 4, no. 7, pp. 10,  
33, 34, July 1936.

36b Curious stalagmites in western  
cave: Mineralogist, vol. 4, no. 9,  
pp. 5, 6, 31, 1 fig., Sept. 1936.

37 Mordenite in Oregon: Mineralogist,  
vol. 5, no. 4, p. 6, April 1937.

38a The gem minerals of Oregon: Oregon  
Dept. Geol. and Min. Ind. Bull. 7, 16 pp.  
(\*), 5 pls., 1938.

38b (and Fleener, Frank Leslie, and  
Wilson, Ben Hur) Quartz family minerals,  
a handbook for the mineral collector:  
xvi, 304 pp., illus., McGraw-Hill Book Co.,  
New York, (c. 1938).

39 20,000 miles await exploration;  
two Oregon counties (Harney and Malheur):  
Mineralogist, vol. 7, no. 7, pp. 267-281,  
3 figs., July 1939.

40a A day in the Sweet Home  
(petrified) forest: Mineralogist,  
vol. 8, no. 3, pp. 83-85, 107-108,  
2 figs., March 1940.

40b Trailing the "thunder eggs":  
Mineralogist, vol. 8, no. 8, pp. 335-  
336, 349, Aug. 1940.

42a Worm-bored woods, conifer cones,  
some rare petrifications: Mineralogist,  
vol. 10, no. 1, pp. 11-12, 20-22,  
Jan. 1942.

42b Latah petrified forests (Wash.,  
Oreg., Idaho): Mineralogist, vol. 10,  
no. 11, pp. 339-340, 352-353, 1 fig.,  
Nov. 1942.

43 New Oregon locality (thunder  
egg): Mineralogist, vol. 11, pp. 340-  
341, Nov. 1943.

45 Notes on quartz minerals of  
Oregon: Mineralogist, vol. 13, pp. 83-  
86, March 1945.

---

Daley, Venita

44 Oregon locality (grossularite):  
Mineralogist, vol. 12, pp. 12, 16,  
May 1944.

---

Dalquest, Walter W.

42 (and Scheffer, Victor B.) The  
origin of the Mima Mounds of western  
Washington: Jour. Geology, vol. 50,  
no. 1, pp. 68-84, Jan. 1942.

---

Dammann, Arthur

39 A preliminary study of the  
properties and uses of Pacific Northwest  
diatomites (abstract): Univ. Washington  
Abstracts of Theses, vol. 4, pp. 215-217,  
Seattle, Nov. 1939.

---

AUTHOR INDEX - Dasher to Dole

Dasher, John

42 (and Fraas, Foster, and Gabriel, Alton) Mineral dressing of Oregon beach sands: U.S. Bur. Mines Rept. Inv. 3668, 19 pp. (\*), 1 fig., 1942.

Davis, C. W.

38a (and others) Progress Reports, Metallurgical Division: U.S. Bur. Mines Rept. Inv. 3370, (\*), (pp. 79-80, mercury ore from vicinity of Medford, Oregon) 1938.

38b (and Bernewitz (von), M.W.) Laboratories that make assays, analyses, and tests on ores, minerals, metals, and other substances: U.S. Bur. Mines Inf. Circ. 6999, pp. 15, 18-19 (\*), March 1938.

38c (and Bernewitz (von), M.W.) Laboratories that make fire assays, analyses, and tests on ores, minerals, and other inorganic substances: U.S. Bur. Mines Inf. Circ. 6999R, p. 20 (\*), Nov. 1938.

Davis, Franklin L.

37 The geological field excursion of 1935 of the Oregon State College, Dept. of Geology: Geol. Soc. Oregon Country News Letter, vol. 3, no. 2, pp. 11-19 (\*), Jan. 1937; no. 3, pp. 23-27 (\*), Feb. 1937.

Davis, Hubert W.

42-44 (and Greenspoon, G. N.) Platinum: U.S. Bur. Mines Minerals Yearbook for calendar years 1942, p. 803; 1943, p. 799; 1944, p. 791.

Day, David Talbot

OO Notes on the occurrence of platinum in North America: Mining, vol. 5, no. 6, pp. 223-228, Spokane, June 1900.

DeMay, Ida

41 An avifauna from sub-recent deposits at Lower Klamath Lake, California: The Condor, vol. 43, no. 6, pp. 295-296, Nov.-Dec. 1941.

Denning, Reynolds McConnell

43 Aluminum scorodite from Hobart Butte, Oregon: Am. Mineralogist, vol. 28, no. 1, pp. 55-57, 1 fig., Jan. 1943.

Dixon, Augustus M.

43 Federal government regulations and the small miner: Ore.-Bin, vol. 5, no. 9, pp. 57-59 (\*), Sept. 1943.

Doerr, John E., Jr.

See Kartchner, Wayne E., 38

Dole, Hollis Mathews

41 Pleistocene lake sediments of northern Lake County, Oregon (abstract): Geol. Soc. America Bull., vol. 52, no. 12, pt. 2, p. 1947, Dec. 1941.

42 Petrography of quaternary lake sediments of northern Lake County, Oregon: Oregon State College, Master's thesis, 98 pp. (\*), incl. 25 mounted photographs, 3 maps (2 mounted), 2 tabs., 22 diagrs., bibliography, Corvallis, 1942.

AUTHOR INDEX - Dorf to Duschak

Dorf, Erling

36 Flora from the Idaho beds  
(abstract): Geol. Soc. America Proc. 1935,  
p. 382, June 1936.

38 A late Tertiary flora from  
southwestern Idaho: Carnegie Inst.  
Washington Contr. Paleontology Pub. 476,  
pp. 73-124, 3 pls., 2 figs. incl. geol.  
map, 1938, preprint Nov. 1936.

---

Dougherty, Jack F.

40 Skull and skeletal remains of  
the camel Paratylopus cameloides  
(Wortman) from the John Day deposits,  
Oregon: Carnegie Inst. Washington  
Pub. 514, preprint, pp. 49-58, 1 pl.,  
June 1940; reprinted in Balch Grad.  
School Contr. 289.

---

Dreyer, Robert M.

40 The geochemistry of quicksilver  
mineralization: Econ. Geology, vol. 35,  
no. 1, pp. 17-48, Jan.-Feb. 1940; no. 2,  
pp. 140-157, 7 figs., March-April 1940;  
(discussion) no. 7, pp. 905-909,  
Nov. 1940.

---

Dunbar, Carl O.

44 (Review of) Paleontology of the  
marine Tertiary formations of Oregon  
and Washington, by C.E. Weaver: Am. Jour.  
Sci., 5th ser., vol. 242, no. 7, p. 397,  
1944.

---

Durham, John Wyatt

37a Operculina in the lower Tertiary  
of Washington: Jour. Paleontology,  
vol. 11, no. 4, p. 367, 1 text fig.,  
June 1937.

---

37b Gastropods of the family  
Epitonidae from the Mesozoic and  
Cenozoic rocks of the west coast of  
North America: Jour. Paleontology,  
vol. 11, no. 6, pp. 479-512, 2 pls.,  
Sept. 1937.

41 Zones of the Oligocene of  
northwestern Washington based on  
megafossils: California Univ. Ab-  
stract of Theses, 4 pp., May 1941;  
(abstract) Geol. Soc. America Bull.,  
vol. 52, no. 12, pt. 2, p. 1980,  
Dec. 1941.

42a Eocene and Oligocene coral  
faunas of Washington: Jour. Paleo-  
ontology, vol. 16, no. 1, pp. 84-104,  
pls. 15-17, 1 fig., Jan. 1942.

42b Notes on Pacific Coast  
galeoidea: Jour. Paleontology,  
vol. 16, no. 2, pp. 183-191, pls.  
29, 30, 2 figs., March 1942.

42c (and Harper, Herbert, and  
Wilder, Beverly, Jr.) Lower Miocene  
in the Willamette Valley, Oregon  
(abstract): Geol. Soc. America  
Bull., vol. 53, no. 12, pt. 2,  
p. 1817, Dec. 1942.

43 Pacific Coast Cretaceous and  
Tertiary corals: Jour. Paleontology,  
vol. 17, no. 2, pp. 196-202, pl. 32,  
2 figs., March 1943.

44 Megafaunal zones of the Oli-  
gocene of northwestern Washington:  
California Univ., Dept. Geol. Sci.  
Bull., vol. 27, no. 5, pp. 101-212,  
pls. 13-18, 7 figs., 1 map, 1944.

---

Duschak, L. H.

25 (and Schuette, C. M.) The  
metallurgy of quicksilver: U.S.  
Bur. Mines Bull. 222, 173 pp., 1925.

---

Dutton, Carl Evans

- 37 Cristobalite at Crater Lake, Oreg.: Am. Mineralogist, vol. 22, no. 6, pp. 804-806, 1 fig., June 1937; (abstracts) Am. Mineralogist, vol. 21, no. 12, pt. 2, p. 4, Dec. 1936; vol. 22, no. 3, p. 209, March 1937; Am. Ceramic Soc. Jour., vol. 20, no. 9, p. 285, Sept. 1937.
- 

Effinger, William Lloyd

- 38 The Gries Ranch fauna (Oligocene) of western Washington: Jour. Paleontology, vol. 12, no. 4, pp. 355-390, 3 pls., 3 figs. incl. index map, July 1938.
- 

Emery, K.O.

See Shepard, Francis Parker, 41

---

Emmons, William Harvey

- 37 Gold deposits of the world, with a section on prospecting: vii, 562 pp., illus. incl. geol. maps, McGraw-Hill Book Co., Inc., New York, 1937.
- 

Eyerly, George Brown

- 42 The properties and uses of Pacific Northwest diatomite (abstract): Univ. Washington Abstracts of Theses 1940-1941, vol. 6, pp. 139-140, Seattle, Jan. 1942.
- 

Facer, John Fred

See also Phillips, Kenneth N., 36

- 37 A chemical study of the fumaroles of Mt. Hood (abstract): Geol. Soc. Oregon Country News Letter, vol. 3, no. 9, pp. 93-94 (\*), May 1937; Mazama, pp. 44-46, Dec. 1936; Reed College, B.A. Thesis, Portland, May 1936.

Fairbanks, Ernest F.

- 43 The origin of thunder eggs: Mineralogist, vol. 11, no. 9, pp. 271-272, 286-287, Sept. 1943.
- 

Federal Writers Project

- 40a Mount Hood: American Guide Series, Works Progress Administration, 132 pp., illus., 1940.

- 40b Oregon, end of the trail: American Guide Series, Works Progress Administration, 549 pp., 64 pp., photographs, 1940.
- 

Felts, Wayne M.

See also Hodge, Edwin Thomas, 36c

- 36a Analysis of Willamette Valley fill (Oregon) (abstracts): Pan-Am. Geologist, vol. 64, no. 1, p. 69, Aug. 1935; Geol. Soc. Oregon Country News Letter, vol. 2, no. 12, p. 6 (\*), June 1936; Geol. Soc. America Proc. 1935, p. 346, June 1936.

- 36b The geology of the Lebanon quadrangle, Oregon: Oregon State College, Master's Thesis, 83 pp. (\*), incl. 17 photographs on 8 pls., 2 maps, 2 diagrs., bibliography, Corvallis, 1936.

- 38 An acid intrusive in the Cascade mountains of southwestern Washington (abstract): Geol. Soc. America Proc. 1937, p. 80, June 1938.

- 39a Keechelus andesitic lava-flows of Washington in southward extension: Pan-Am. Geologist, vol. 61, no. 4, pp. 294-296, May 1939.

- 39b A granodiorite stock in the Cascade Mountains of southwestern Washington: Ohio Jour. Sci., vol. 39, no. 6, pp. 297-316, 4 figs. incl.

AUTHOR INDEX - Fernquist to Forrester

Fernquist, Charles O.

33 (and Dake, Henry Carl) Opal from the Columbia Plateau basalt flows of Washington, Idaho, and Oregon: Rocks and Minerals, vol. 8, no. 1, pp. 30-32, March 1933.

37 A new zeolite locality (Oregon): Mineralogist, vol. 5, no. 4, pp. 18-19, April 1937.

Ferris, Clarence

41 Some minerals of Bonneville, Oregon: Mineralogist, vol. 9, pp. 310-311, Aug. 1941.

Fieldner, Arno C.

14a (and others) Analyses of mine and car samples of coal collected in the fiscal years 1911 to 1913: U.S. Bur. Mines Bull. 85, pp. 66-67, 255-257, 1914.

14b Notes on the sampling and analyses of coal; U.S. Bur. Mines Tech. Paper 76, p. 40, 1914.

42 (and Rice, W. E., and Moran, H. E.) Typical analyses of coals of the United States; U.S. Bur. Mines Bull. 446, 45 pp., 1 fig., 1942.

Pinkbinder, N. M.

39 A state-wide survey of aggregates: Oregon State Highway Dept. Tech. Rept. no. 39-2, 161 pp., 1939.

Fisk, Harold Norman

35 Microscopic study of basalt flows: Univ. of Cincinnati, Ph.D. Thesis, 129 pp. (\*), 8 pls., 6 figs., 9 tabs., bibliography, Cincinnati, 1935.

Fleener, Frank Leslie

See Dake, Henry, Carl, 38b

Flint, Richard Foster

36 Stratified drift and deglaciation of eastern Washington: Geol. Soc. America Bull., vol. 47, pp. 1849-1884, Dec. 1936.

37 Pleistocene drift border in eastern Washington: Geol. Soc. America Bull., vol. 48, pp. 203-232, Feb. 1937.

38a Summary of late-Cenozoic geology of southeastern Washington: Am. Jour. Sci., 5th ser., vol. 35, no. 207, pp. 223-230, March 1938.

38b Origin of the Cheney-Palouse scabland tract, Washington: Geol. Soc. America Bull., vol. 49, no. 3, pp. 461-523, 10 pls., 11 figs. incl. geol. sketch maps, March 1938; (abstract) Proc. 1936, p. 72, June 1937.

38c Scabland auf dem Columbia Plateau im östlichen Washington: Jour. Geomorphology, vol. 1, no. 2, pp. 130-139, 3 figs. incl. map, April 1938. (Translated by Kurt E. Lowenstein)

38d Origin of the scablands of central Washington (abstract): Geol. Rev., vol. 28, pp. 490-491, July 1938.

Forbes, P. L.

36 Polka-dot agate in Oregon: Rocks and Minerals, vol. 11, no. 9, pp. 168-169, Sept.-Oct. 1936.

Forrester, J. D.

See Freeman, Otis W., 45

AUTHOR INDEX - Fowler to Fuller

Fowler, Claude S.

35 Origin of the sulphur deposits of Mount Adams: Washington State College Thesis (\*), Pullman, 1935.

36 The geology of the Mount Adams Country (abstract): Geol. Soc. Oregon Country News Letter, vol. 2, no. 1, pp. 2-5 (\*), Jan. 1936.

Fraas, Foster

See Dasher, John, 42

Freeman, Otis Willard

33 Geologic climates of the Inland Empire: Northwest Sci., vol. 7, no. 2, pp. 28-32, June 1933.

36 Geologic and geographic inter-relations of Washington: Pan-Am. Geologist, vol. 66, no. 5, pp. 346-362, 9 figs., Dec. 1936.

38 The Snake River Canyon: Geog. Rev., vol. 28, no. 4, pp. 597-608, 14 figs. incl. index map, Oct. 1938.

40 Physiographic divisions of the Columbia Plateau: Assoc. Pacific Coast Geographers Yearbook, vol. 6, pp. 12-20, 5 figs. incl. index map, 1940.

42a (and Martin, Howard H., editorial committee) The Pacific Northwest, a regional, human, and economic survey of resources and development: 542 pp., illus., diagrs., and maps. John Wiley & Sons, Inc., New York, 1942.

42b Columbia lava basins and plateaus: (In) Pacific Northwest. John Wiley & Sons, Inc., New York, 1942.

43 Strategic and essential minerals of the Pacific Northwest: Northwest Sci., vol. 17, pp. 41-74, Aug. 1943; (abstract) Assoc. Am. Geographers Annals, vol. 37, pp. 87-88, March 1943.

45 (and Forrester, J. D., and Luper, Ralph Leonard) Physiographic divisions of the Columbia intermontane province: Assoc. Am. Geographers Annals, vol. 35, no. 2, 3 figs., pp. 53-75, June 1945.

French, A. J.

35 Columbia County, Oregon, has large iron deposits: Mineralogist, vol. 3, no. 7, p. 15, July 1935.

Frizzell, Donald Leslie

See also Cushman, Joseph Augustine, 40  
Keen, Angeline Myra, 39

39 (and Blackwelder, Richard Elliot) Preliminary analysis of the type Lincoln fauna (Oligocene) of Washington: Micro-paleontology Bull., vol. 4, no. 2, pp. 53-63 (\*), 1 fig. map, 3 pls., Stanford, July 1933.

37 Foraminifera of the type areas of the Lincoln formation of Washington (abstract): Geol. Soc. America Proc. 1936, p. 383, June 1937.

Fuller, Richard Eugene

See also Goodspeed, George Edward, 44b

36 Variations in alkaline content of acidic lava (abstracts): Pan-Am. Geologist, vol. 64, no. 1, pp. 68-69, Aug. 1935; Geol. Soc. Oregon Country News Letter, vol. 2, no. 12, pp. 6-7 (\*), June 1936; Geol. Soc. America Proc. 1935, p. 345, June 1936.

37 Contemporaneous activity of basalt and latite in southeastern Oregon (abstract): Geol. Soc. America Proc. 1936, p. 331, June 1937.

38 Deuteric alteration controlled by the jointing of lavas: Am. Jour. Sci., 5th ser., vol. 35, no. 207, pp. 161-171, 6 figs., March 1938.

AUTHOR INDEX - Fuller to Goodspeed

Fuller, Richard Eugene (cont.)

39 Gravitational accumulation of olivine during the advance of basaltic flows: *Jour. Geology*, vol. 47, no. 3, pp. 303-313, 6 figs., April-May 1939.

Furnish, William Madison

See Miller, Arthur, 40

Gabriel, Alton

See Dasher, John, 42

Gale, Hoyt Rodney

See Gale, Hoyt Stoddard, 32

Gale, Hoyt Stoddard

32 (and Gale, Hoyt Rodney) Miocene volcanism (abstracts): *Geol. Soc. America Bull.*, vol. 43, no. 1, pp. 234-235, March 1932; *Pan-Am. Geologist*, vol. 55, no. 5, p. 371, June 1931.

Gardner, E. D.

36 Costs of trucking and packing ore in western gold-mining districts: *U.S. Bur. Mines Inf. Circ.* 6898, 17 pp. (\*), 4 figs., 1936.

38 (and Johnson, C. H., and Butler, B. S.) Copper mining in North America: *U.S. Bur. Mines Bull.* 405, p. 61, 1938.

Gaylord, H. M.

See Merrill, Charles White, 35-44

Gidley, James Williams

31 Continuation of the fossil horse roundup on the Old Oregon Trail: *Smithsonian Inst. Explor. and Field Work* in 1930, pp. 33-40, 6 figs., 1931.

Geer, Max Richard

See also Yancey, H. F., 40

43 Analyses and other properties of Oregon coals as related to their utilization: *Univ. Washington Engineer of Mines Thesis*, Seattle, 1943.

Gilluly, James

37 Geology and mineral resources of the Baker quadrangle, Oregon: U.S. Geol. Survey Bull. 879, vi, 119 pp., 3 pls. incl. geol. map, 7 figs. incl. index map, 1937.

Gidmore, Charles W.

38 Fossil snakes of North America: *Geol. Soc. America Spec. Paper* no. 9, 96 pp., (p. 4, 37, John Day) May 1938.

Gleeson, George W.

45 Why the Humphreys spiral works: *Eng. and Min. Jour.*, vol. 146, no. 3, pp. 85-86, 1945.

Goodspeed, George Edward

See also Wilson, Hewitt, 34

37a Development of quartz porphyroblasts in a siliceous hornfels: *Am. Mineralogist*, vol. 22, no. 2, pp. 133-138, 6 figs., Feb. 1937; (abstracts) *Pan-Am. Geologist*, vol. 64, no. 1, p. 69, Aug. 1935; *Geol. Soc. America Proc.* 1935, p. 346, June 1936.

AUTHOR INDEX - Goodspeed to Green

Goodspeed, George Edward (cont.)

37b Hornfels-granodiorite transitional facies at Cornucopia, Oregon (abstracts): Am. Mineralogist, vol. 22, no. 3, p. 216, March 1937; Geol. Soc. America Proc., 1936, pp. 74-75, June 1937.

37c (and Coombs, Howard Abbott) Replacement breccias of the lower Keechelus (Washington): Am. Jour. Sci., 5th ser., vol. 34, no. 199, pp. 12-23, 3 figs. incl. index map, July 1937; (abstract) Geol. Soc. America Proc., 1936, p. 319, June 1937.

37d Small granodioritic blocks formed by additive metamorphism: Jour. Geology, vol. 45, no. 7, pp. 741-762, 19 figs., Oct.-Nov. 1937; (abstract) Geol. Soc. America Proc., 1936, p. 302, June 1937.

37e Development of plagioclase porphyroblasts: Am. Mineralogist, vol. 22, no. 12, pt. 1, pp. 1133-1138, 7 figs., Dec. 1937; (abstract) Geol. Soc. America Proc., 1936, pp. 332-333, June 1937.

39a Geology of the gold quartz veins of Cornucopia (Oregon): Am. Inst. Min. Met. Eng. Tech. Pub. 1035, 18 pp., 9 figs. incl. geol. map, March 1939.

39b Pre-Tertiary metasomatic processes in the southeastern portion of the Wallowa Mountains of Oregon: 6th Pacific Sci. Cong. Proc., pp. 399-422, 13 figs. incl. index map, 1939.

40a Pre-Tertiary metasomatic processes in the southeastern portion of the Wallowa Mountains of Oregon: 6th Pacific Sci. Cong. Proc., vol. 1, pp. 399-422, 16 figs., incl. index map, 1940.

40b Dilation and replacement dikes (abstract): Jour. Geology, vol. 48, no. 2, pp. 175-195, 22 figs., Feb.-March 1940; (abstract) Geol. Soc. America Bull., vol. 50, no. 12, pt. 2, p. 1950, Dec. 1939.

41a (and Fuller, Richard E., and Coombs, Howard A.) Metasomatism of a coaly sediment into an igneous-appearing rock: Jour. Geology, vol. 44, no. 2, pp. 190-198, Feb.-March 1941.

41b Geology of the gold quartz veins of Cornucopia (Oregon): Am. Inst. Min. Met. Eng. Trans., vol. 144, pp. 172-189, 9 figs. incl. geol. map, 1941.

41c Cataclastic gold quartz veins (abstract): Geol. Soc. America Bull., vol. 52, no. 12, pt. 2, p. 1949, Dec. 1941.

44a (Discussion of) The Wallowa Batholith by Konrad Krauskopf: Am. Jour. Sci., vol. 242, pp. 281-282, May 1944.

44b (and Fuller, Richard E.) Replacement aplite breccia: Jour. Geology, vol. 52, no. 4, pp. 264-274, July 1944; (abstract) Geol. Soc. America Bull., vol. 52, no. 12, pt. 2, pp. 1905-1906, Dec. 1941.

Graf, Samuel Herman

See Thomas, Charles Edwin, 37

Grant, Robert Y.

41 A John Day vertebrate fossil discovered in the Keechelus series of Washington: Am. Jour. Sci., 5th ser., vol. 239, no. 8, pp. 590-593, 1 pl., 2 figs. index maps, Aug. 1941.

Grant, Ulysses Simpson, IV

38 (and Hertlein, Leo George) The West American Cenozoic Echinoidea: California Univ. Pub. Math. Phys. Sci., vol. 2, pp. vi, 225, 30 pls., 17 figs., April 1938.

Green, Stephen Harry

43 Coal and coal mining in Washington: Washington Dept. Conserv. and Devel., Div. Mines and Mining Rept. Inv. 4, 41 pp., 3 figs. incl. index map, 1943.

AUTHOR INDEX - Greenup to Hall

Greenup, Wilbur

See also Smith, Warren DuPre, 39

41 Physiography and climate (past and present) in the Oregon portion of the Great Basin: Oregon Univ. Master's Thesis, 59 pp. (\*), Eugene, 1941.

---

Griffin, L. E.

38 Experiments on tolerance of young trout and salmon for suspended sediment in water; (In) Placer mining on the Rogue River, Oregon, in its relation to the fish and fishing in that stream, by Henry Baldwin Ward: Oregon Dept. Geology and Min. Ind. Bull. 10, pp. 28-31, 1938.

---

Griggs, Allan Bingham

43 (and Wells, Francis Gerritt) Origin of some chromiferous sands along the southwestern Oregon coast: (abstract) Geol. Soc. America Bull., vol. 53, no. 12, pt. 2, p. 1802, Dec. 1942; Econ. Geology, vol. 38, no. 1, p. 83, Jan.-Feb. 1943.

45 Chromite-bearing sands of the southern part of the coast of Oregon: U.S. Geol. Survey Bull. 945-E, v. 150 pp., 11 pls., incl. index map and geol. maps and sects., 3 figs., 4 tabs., 1945.

---

Grimaldi, Frank Saverio

See Cannon, Ralph Smyser, Jr., 41

---

Grievetti, R. M.

See Warren, Walter Cyrus, 45

---

Grosvenor, Edward Rickman

34 Geological report on a section of Tertiary sediments at Coos Bay, Oregon: Washington Univ. Bachelor's Thesis, 19 pp. (\*), 3 pls. incl. maps and sect., bibliography, Seattle, 1934.

---

Grout, Frank Fitch

41 Formation of igneous-looking rocks by metasomatism; a critical review and suggested research: Geol. Soc. America Bull., vol. 52, no. 10, pp. 1525-1576, 1 pl., 4 figs., Oct. 1941.

---

Grove, John Hames

40 The New York mine, Granite, Oregon: Washington Univ. Bachelor of Science in mining engineering, i-v, 61 pp. (\*), incl. 28 pl., (part fold., incl. maps) tabs., diagrs., 1940.

---

Groves, F. W.

96 Baker City mines: Mining, vol. 2, no. 6, pp. 139-142, Dec. 1896.

---

Gustafson, Mrs. Ralph

45 A vacation in central Oregon: Mineralogist, vol. 13, pp. 5-7, 14, 16, Jan. 1945.

---

Hall, Eugene Raymond

See also Stock, Chester, 42

36 Mustelid mammals from the Pleistocene of North America, with systemic notes on some recent members of the genera Mustela, Taxidea, and Mephitis: Carnegie Inst. Washington Pub. 473, Contr. Paleontology, pp. 41-119, 5 pls., 6 figs. incl index map, preprint, Nov. 1936.

42 New genus of American Pliocene badger, with remarks on the relationships of badgers of the northern hemisphere (abstract): Geol. Soc. America Bull., vol. 53, no. 12, pt. 2, pp. 1841-1842, Dec. 1942.

---

AUTHOR INDEX - Hancock to Hatmaker

Hancock, Alonzo W.

38 The geological book of the John Day Country: Geol. Soc. Oregon Country News Letter, vol. 4, no. 9, pp. 90-97 (\*), May 1938.

Handley, Benjamin L.

43 Precious opal discoveries in Oregon: Rocks and Minerals, vol. 18, no. 7, pp. 199, July 1943.

Hanna, G. Dallas

See Camp, Charles Lewis, 37

Hansen, Henry Paul

41a Paleoecology of two peat deposits on the Oregon coast: Oregon State College Studies in geology, no. 3, 31 pp., 2 figs., May 1941.

41b Paleoecology of a peat deposit in west-central Oregon: Am. Jour. Botany, vol. 28, no. 3, pp. 206-212, 1 fig., March 1941.

42a Post-Mount Mazama forest succession on the east slope of the central Cascades of Oregon: Am. Midland Naturalist, vol. 27, no. 2, pp. 523-534, 4 figs., March 1942.

42b The influence of volcanic eruptions upon post-Pleistocene forest succession in central Oregon: Am. Jour. Botany, vol. 29, no. 3, pp. 214-219, 1 fig., March 1942.

42c A pollen study of lake sediments in the lower Willamette Valley of western Oregon: Torrey Bot. Club Bull., vol. 69, no. 4, pp. 262-280, 3 figs., April 1942.

42d (and Allison, Ira Shimmin) A pollen study of a fossil peat deposit on the Oregon coast: Northwest Sci., vol. 16, no. 4, pp. 86-92, 1 fig., Nov. 1942.

42e A pollen study of a montane peat deposit near Mount Adams, Washington: Lloydia, vol. 5, no. 4, pp. 305-313, 2 figs., 2 tabs., Dec. 1942.

42f A pollen study of peat profiles from Lower Klamath Lake of Oregon and California: Carnegie Inst. Washington Pub. 538, pp. 103-114, 8 figs., 1942.

42g Post-Pleistocene vegetation and climate of the Pacific Northwest (abstract): Am. Jour. Botany, vol. 29, no. 8, p. 693, Oct. 1942.

43a A pollen study of a subalpine bog in the Blue Mountains of north-eastern Oregon: Ecology, vol. 24, no. 1, pp. 70-78, 2 figs., 2 tabs., Jan. 1943.

43b Paleoecology of two sand-dune bogs on the southern Oregon coast: Am. Jour. Botany, vol. 30, no. 5, pp. 335-340, 3 figs., May 1943.

Harper, Herbert

See Durham, John Wyatt, 42c

Harrison, Harold Charles

42 (and Allen, John Eliot) Investigation of the reported occurrence of tin at Juniper Ridge, Oregon: Oregon Dept. Geology and Min. Ind. Bull. 23, 54 pp. (\*), index map, 4 pls., 1942.

Hatmaker, Paul

31 Diatomite: U.S. Bur. Mines Inf. Circ. 6391, pp. 4, 17 (\*), 1 map, Feb. 1931.

32 Pumice and pumicite: U.S. Bur. Mines Inf. Circ. 6560, 23 pp. (\*), March 1932.

AUTHOR INDEX - Healey to Hodge

Healey, M. V.

30 (and John, A. L.) Selected bibliography and map of manganese deposits of the United States by districts: U.S. Bur. Mines Inf. Circ. 6274, 19 pp. (\*), 1930.

Heck, Nicholas Hunter

38 Earthquakes and the western mountain region: Geol. Soc. America Bull., vol. 49, no. 1, pp. 1-21, 2 pls. incl. index map, 5 figs. incl. index map, Jan. 1938.

Hedges, J. H.

See Jackson, Charles F., 39

Henderson, Junius

36 Nonmarine mollusca of Oregon and Washington: Univ. Colorado Studies, vol. 17, no. 2, 190 pp., 186 figs., July 1929; (supplement) vol. 23, no. 4, pp. 251-280, 2 pls., 3 figs., June 1936.

Hertlein, Leo George

See Grant, Ulysses Simpson, IV, 38

Hinds, Norman Ethan Allen

39 Paleozoic section in the southern Klamath Mountains, California: 6th Pacific Sci. Cong. Proc., pp. 273-287, (preprint), 1939.

Hobbs, Samuel Warren

See Pecora, William Thomas, 42

Hobbs, William H.

43 Discovery in eastern Washington of a new lobe of the Pleistocene continental glacier: Science, vol. 98, no. 2541, pp. 227-230, Sept. 1943.

Hodge, Edwin Thomas

See also Bogue, Richard, 40  
Treasher, Raymond Clarence, 36

36a Origin of the Washington scablands (abstract): Internat. Geol. Cong., 16th Session, 1933, vol. 2, p. 1105, 1936.

36b Bibliography of Oregon geology: Geol. Soc. Oregon Country News Letter, vol. 2, no. 6, pp. 1-21 (\*), March 1936.

36c (and Wilkinson, William Donald, and Felts, Wayne M.) Igneous-rock relations: Geol. Soc. Oregon Country News Letter, vol. 2, no. 11, pp. 11-12 (\*), 1 chart, June 1936.

37 Location of Bonneville dam (abstract): Geol. Soc. America Proc. 1936, pp. 310-311, June 1937.

38a Preliminary report on some northwest manganese deposits, their possible exploration and uses: War Dept., Corps of Engrs., U.S. Army, Office of Div. Engr., North Pacific Div., Portland, Oregon, 91 pp. (\*), 8 pls. incl. index maps, Jan. 1938.

38b The Cascade Plateau province (Oregon): Geol. Soc. Oregon Country News Letter, vol. 4, no. 1, pp. 3-11 (\*), 2 pls., Jan. 1938; no. 2, pp. 16-26 (\*), Jan. 1938.

38c Mineral deposits of Oregon: Geol. Soc. Oregon Country News Letter, vol. 4, no. 8, supp. 1, 24 pp. (\*), April 1938.

AUTHOR INDEX - Hodge

Hodge, Edwin Thomas (cont.)

38d Market for Columbia River hydro-electric power using northwest minerals: Sec. 1, Northwest magnesia ores: War Dept., Corps of Engrs., U.S.Army, Office of Div. Engr., North Pacific Div., Portland, Oregon, vol. 1, pt. 2, pp. 33-131 (\*), 23 pls. incl. geol. and index maps, Jan. 1938; Sec. 2, Northwest silica minerals, vol. 1, pt. 1, Silica localities of the Pacific Northwest, xx, 175 pp. (\*), 38 pls. incl. index and geol. maps, Jan. 1938; vol. 2, pt. 2, Silica localities other than the Pacific Northwest, pp. viii, 177-189 (\*), 4 pls., Jan. 1938; Sec. 3, Northwest limestones, vol. 1, pt. 1, Limestones of the Northwest States, 335 pp. (\*), 64 pls. incl. geol. maps, Jan. 1938; vol. 2, pt. 2, Other limestone occurrences available to or competitive with the Lower Columbia River area, pp. a-k, 373-382 (\*), 5 pls. index maps, Jan. 1938; Sec. 4, Northwest clays, 4 vols. (\*), illus., Jan. 1938.

38e Geology of the lower Columbia River: Geol. Soc. America Bull., vol. 49, no. 6, pp. 831-930, 12 pls. incl. relief map, 25 figs. incl. geol. map and topog. maps, June 1938.

38f Future of the Northwest in chemical development: Pacific Chem. and Met. Industries, vol. 2, pp. 3-4, Aug. 1938.

38g Origin of the Willamette Valley: Geol. Soc. Oregon Country News Letter, vol. 4, no. 19, pp. 215-219 (\*), Oct. 1938.

39a Northwest mineral supplies: Northwest Sci., vol. 13, no. 2, pp. 38-44, May 1939.

39b Mount Multnomah: Geol. Soc. Oregon Country Geol. News Letter, vol. 5, no. 1, pp. 3-7 (\*), 2 pls., Jan. 1939.

40a The mineral resources of Oregon: Physical and economic geography of Oregon, pp. 234-246, 1 fig. index map, Oregon State Board of Higher Education (1940).

40b Cascade andesites of Oregon (abstract): Geol. Soc. America Bull., vol. 51, no. 12, pt. 2, p. 1959, Dec. 1940.

40c Bonneville-Grand Coulee Power and Alaskan minerals (abstract): Geol. Soc. America Bull. 51, no. 12, pt. 2, p. 2024, Dec. 1940.

40d Glacial history of south-eastern Washington (abstract): Geol. Soc. America Bull., vol. 51, no. 12, pt. 2, p. 2024, Dec. 1940.

40e Mineral resources of the Northwest (abstract): Geol. Soc. America Bull., vol. 51, no. 12, pt. 2, p. 2025, Dec. 1940.

40f Structure and petrography of the Oregon Cascades (abstract): Geol. Soc. America Bull., vol. 51, no. 12, pt. 2, p. 2025, Dec. 1940.

41a Dawn of life in Oregon: Geol. Soc. Oregon Country News Letter, vol. 7, no. 1, pp. 7-9 (\*), 1941.

41b The Paleocene during the Lance time in Oregon: Geol. Soc. Oregon Country News Letter, vol. 7, no. 3, pp. 28-29 (\*), 1941.

41c Geology of the Madras quadrangle: Oregon State College Studies in Geology, no. 1, geol. map with cross sections and geologic data on side and back, June 1941.

41d Paleocene or Fort Union time: Geol. Soc. Oregon Country News Letter, vol. 7, no. 9, pp. 88-91 (\*), 1941.

42 Geology of north central Oregon: Oregon State College Studies in Geology, no. 3, 76 pp., 2 pls., 60 figs. incl. index, geol., relief maps, April 1942.

44 Limestone of the Pacific Northwest: Bonneville Power Administration, Div. of Ind. and Resources Development, Ind. Analyses Section, 104 pp. (\*), 17 pls., Sept. 1944.

AUTHOR INDEX - Holdredge to Hulin

Holdredge, Claire Parker

36 Crescent Lake and vicinity (Oregon): Geol. Soc. Oregon Country News Letter, vol. 2, no. 17, pp. 6-8 (\*), Sept. 1936.

37a Final geologic report on the Bonneville project: U.S. Eng. Office, 36 pp. (\*), illus., 10 maps and diagrs., Jan. 1937.

37b Fumaroles at Bonneville: Geol. Soc. Oregon Country News Letter, vol. 3, no. 9, pp. 96-97 (\*), May 1937.

37c Geology of the Bonneville project: Geol. Soc. Oregon Country News Letter, vol. 3, no. 11, pp. 117-120 (\*), June 1937.

37d Lower Columbia River trip: Geol. Soc. Oregon Country News Letter, vol. 3, no. 18, pp. 196-200 (\*), Sept. 1937.

41 Survey of nonmetallic mineral production of Oregon for 1940: Oregon Dept. Geology and Min. Industries Short Paper no. 5, 9 pp. (\*), 1 tbl., 1941.

42 Columbia River basalt question: Geol. Soc. Oregon Country News Letter, vol. 8, no. 1, pp. 223-225 (\*), 1942.

---

Hollick, Arthur

36 The Tertiary floras of Alaska: U.S. Geol. Survey Prof. Paper 182, 1 tbl., p. 24, 1936.

---

Hotz, Preston Enslow

See also Wells, Francis Gerritt, 41b

40 Paleozoic volcanic rocks in the Medford quadrangle, Oregon: Univ. California Master's Thesis, pp. i-iii, 40 (\*), 2 pls., photographs, maps, Berkeley, 1940.

42 Iron ore deposit near Scappoose, Columbia County, Oregon: U.S. Geol. Survey Strategic Minerals Inv., unpub. ms., 25 pp. (\*), 5 pls., 4 figs., 1942.

Howard, Arthur David

38 (Review of) Origin of the Cheney-Palouse scabland tract, Washington, by Richard Foster Flint, 1938: Geog. Rev., vol. 28, no. 3, pp. 490-491, July 1938.

---

Howe, Henry Van Wagenen

See Rogers, Austin Flint, 41

---

Howell, Paul W.

40 Some features of lake occupation in the Klamath region: Geol. Soc. Oregon Country News Letter, vol. 6, no. 19, pp. 161-164 (\*), Oct. 1940.

---

Hoyt, William Glenn

35 Water utilization in the Snake River basin: U.S. Geol. Survey Water-Supply Paper 657, 362 pp., 26 pls., 1935.

---

Hubbard, Judson S.

See Humphreys, I. B., 43

---

Hughes, H. Herbert

31 Scope of lightweight aggregate industry: Am. Inst. Min. and Met. Eng. Trans., pp. 187-203, 1931.

---

Hulin, C. D.

43 Status of ore-discovery in California and Oregon: Min. Cong. Jour., vol. 28, pp. 21-33, Jan. 1943.

---

AUTHOR INDEX - Humphreys to Johansen

Humphreys, I. B.

43 (and Hubbard, Judson S.) Where spirals replaced tables, flotation cells: Eng. and Min. Jour., vol. 146, no. 3, pp. 82-84, 1943.

Hunting, Marshall Tower

42a Opal in joint cracks in basalt at Pullman, Washington: Mineralogist, vol. 10, no. 1, pp. 9-10, 25-29, 1 fig., Jan. 1942.

42b Preliminary report of geology along part of Tucannon River (Washington): Northwest Sci., vol. 16, no. 4, pp. 103-104, Nov. 1942.

Hutchinson, Murl Walter

41 The geology of the Butte Falls quadrangle, Oregon: Oregon State College Master's Thesis, 103 pp. (\*), incl. 27 mounted photographs, (1 folded), 2 maps (1 folded), 2 tabs., bibliography, Corvallis, 1941.

Huttle, John B.

43a Oregon chrome sands yield to magnetic separation: Eng. and Min. Jour., vol. 144, no. 9, pp. 62-65, 1943.

43b New type concentrator cuts chromite processing costs: Eng. and Min. Jour., vol. 144, no. 10, pp. 68-70, 1943.

Iverson, H. G.

45 (and Coughlin, G. P.) Hobart Butte - a potential source of alumina: Eng. and Min. Jour., vol. 146, pp. 81, March 1945.

Jackson, Charles F.

See also Johnson, Fred W., 38

39 (and Hedges, J. H.) Metal mining practice: U.S. Bur. Mines Bull. 419, pp. 6, 14, 15, 22, 261, 1939.

Janssen, Raymond E.

41 Geological aspects of our National parks: Sci. Monthly, vol. 53, no. 8, pp. 99-115, Aug. 1941.

Jenckes, Edwin K.

44 (and Wildensteiner, K. D.) Chromite: U.S. Bur. Mines Minerals Yearbook for calendar year 1944, p. 602.

Jenkins, Olaf Pitt

38 Geologic map of California: 6 sheets, scale 1:500,000, California Div. Mines, San Francisco, 1938.

43 Introduction to Cretaceous of California: Am. Assoc. Petroleum Geologists Bull. 27, pp. 249-261, (maps) March 1943; (abstracts): Am. Assoc. Petroleum Geologists Bull. 25, no. 11, p. 2094, Nov. 1941; Oil Weekly, vol. 103, no. 7, p. 57, Oct. 1941.

Johansen, D. O.

40 Organization and finance of the Oregon Iron & Steel Company, 1880-1895; with excerpts from the correspondence of S. G. Reed and H. Villard: Pacific Northwest Quart., vol. 31, pp. 123-159, April 1940.

AUTHOR INDEX - John to Keen

John, A. L.

See Healey, M. V., 30

Johnson, C. H.

See Gardner, E. D., 38

Johnson, Fred W.

38 (and Jackson, Charles F.) Federal placer mining laws and regulations, and small scale placer-mining methods: U.S. Bur. Mines Tech. Paper 591, 49 pp., 26 figs., 1938.

Jones, Austin Emery

40 Modoc lava surfaces (Oregon) (abstract): Geol. Soc. America Bull., vol. 51, no. 12, pt. 2, pp. 1959-1960, Dec. 1940.

43 Classification of lava surfaces: Am. Geophys. Union Trans., 24th Ann. Meeting, pt. 1, pp. 265-268 (\*), Oct. 1943.

Jones, Francis T.

39 An occurrence of vivianite in Oregon: Geol. Soc. Oregon Country News Letter, vol. 5, no. 21, p. 195 (\*), Nov. 1939.

Julihn, C. E.

45 (and Moon, Lowell B.) Summary of Bureau of Mines exploration projects on deposits of raw material resources for steel production: U.S. Bur. Mines Rept. Inv. 3801, 35 pp. (\*), 1945.

Kartchner, Wayne E.,

38 (and Doerr, John E., Jr.) The pumice castle; Crater Lake National Park: Nature Notes, vol. 11, no. 2, pp. 19-20 (\*), Aug. 1938.

Keen, F. Paul

37 Climatic cycles in Eastern Oregon as indicated by tree rings: Geol. Soc. Oregon Country News Letter, vol. 3, no. 8, p. 84 (\*), April 1937, abst. from Am. Meteorological Soc. Bull., Nov. 1936; Monthly Weather Rev., U.S. Weather Bur., vol. 65, no. 5, May 1937.

Keen, Angeline Myra

See also Schenck, Hubert Gregory, 36a, 40

36 Revision of Cardiid pelecypods (abstract): Geol. Soc. America Proc. 1935, p. 367, June 1936.

37 An abridged check list and bibliography of west North American marine Mollusca: 88 pp., 3 figs., Stanford Univ. Press, 1937.

39 (and Frizzell, Donald Leslie) Illustrated key to west North American pelecypod genera: 28 pp. (\*), illus., Stanford Univ. Press, 1939.

42 (and Doty, Charlotte L.) An annotated check list of the gastropods of Cape Arago, Oregon: Oregon State College Monographs, Studies in Zoology, no. 3, pp. 1-16, 1 fig., Corvallis, 1942.

44 (and Bentson, Herdis) Check list of California Tertiary marine Mollusca: Geol. Soc. America Spec. Paper 56, 280 pp., 4 figs., 1944; (abstract): Geol. Soc. America Bull., vol. 51, no. 12, pt. 2, pp. 1972-1973, Dec. 1940.

AUTHOR INDEX - Kelley to Lancaster

Kelley, W. P.

- 39 (and Brown, S. M.) An unusual alkali soil: Am. Soc. Agronomy Jour., vol. 31, no. 1, pp. 41-43, 1939.

Kelly, James

- 37 The geology of Suplee area (Oregon): Geol. Soc. Oregon Country News Letter, vol. 3, no. 2, pp. 7-11 (\*), Jan. 1937.

Kemp, Randall H.

- 02a Among the mines of eastern Oregon: Mining, vol. 10, no. 1, pp. 1-12, 5 figs., maps, July 1902, Spokane.

- 02b Eastern Oregon gold fields: Mining, vol. 10, no. 2, pp. 33-38, Aug. 1902, Spokane.

Kenely, Martin L.

See Nighman, C. E.

Kirchner, Howard William

- 39 Estimated cost of equipping and operating the Vindicator Mine, Josephine County, Oregon: i-v, 66 pp. (\*), incl. maps (folded), tabs., diagrs., Appended: Recovery of gold: Washington Univ. Bachelor of Science in mining engineering Thesis, Seattle, 1939.

Kleinpell, Robert Minssen

See also Schenck, Hubert Gregory, 36b, 39

- 38 Miocene stratigraphy of California: ix, 450 pp., 27 pls., 9 figs. incl. index maps, Am. Assoc. Petroleum Geologists, Tulsa, Oklahoma, 1938.

Krauskopf, Konrad Bates

- 43 The Wallowa batholith (Oregon): Am. Jour. Sci., vol. 241, pp. 607-628, 3 figs. incl. index and geol. maps, Oct. 1943; (abstract) Geol. Soc. America Bull., vol. 53, no. 12, pt. 2, p. 1819, Dec. 1942.

Krieger, Alex D.

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LaMotte, Robert Smith

- 36a Climatic implications of Sapindus oregonianus: Carnegie Inst. Washington Pub. 455, pp. 29-38, 3 pls., 2 text figs., issued Jan. 1935, (1936).

- 36b The Miocene Tilias of western America: Carnegie Inst. Washington Pub. 455, pp. 39-48, 3 pls., issued July 1935, (1936).

- 36c Preliminary report of an upper Oligocene florule from Vancouver Island (abstract): Geol. Soc. America Proc. 1935, p. 416, June 1936.

- 38 Oligocene flora from northeastern California (abstract): Geol. Soc. America Bull., vol. 49, no. 12, pt. 2, p. 1915, Dec. 1938.

- 44 Supplement to catalogue of Mesozoic and Cenozoic plants of North America: U.S. Geol. Survey Bull. 924, 330 pp., 1944.

Lancaster, Hugh K.

See Libbey, Fay Wilmott, 42

AUTHOR INDEX - Landes to Leever

Landes, Kenneth K.

35 Age and distribution of pegmatites: Am. Mineralogist, vol. 20, no. 2, pp. 84, 98, Feb. 1935.

Laughlin, W. S.

41 Excavations in the Calapuya mounds in the Willamette Valley, Oregon: Am. Antiquity, vol. 7, pp. 147-155, Oct. 1941.

43 Notes on the archaeology of the Yamhill River, Willamette Valley, Oregon: Am. Antiquity, vol. 9, pp. 220-229, Oct. 1943.

Lawrence, Donald Buermann

36 The submerged forests of the Columbia River gorge: Geog. Rev., vol. 26, no. 4, pp. 581-592, 8 figs., incl. index maps, Oct. 1936.

37 Drowned forests of the Columbia River gorge: Geol. Soc. Oregon Country News Letter, vol. 3, no. 8, pp. 78-83 (\*), April 1937.

39 Some features of the vegetation of the Columbia River Gorge with special reference to asymmetry in forest trees: Ecol. Monographs, vol. 9, pp. 217-257, April 1939; (abstract) Geol. Soc. Oregon Country News Letter, vol. 5, no. 12, p. 109 (\*), 1939.

41 The "floating island" lava flow of Mt. St. Helens (Washington): Mazama, vol. 23, no. 12, pp. 56-60, 4 figs. incl. aerial photograph, Dec. 1941; Geol. Soc. Oregon Country News Letter, vol. 8, no. 2, (reprint) 1942.

Layfield, Robert A.

See also Treasher, Raymond Clarence, 37a

36a Saddle Mountain: Geol. Soc. Oregon Country News Letter, vol. 2, no. 13, pp. 7 (\*), 1 fig., July 1936.

36b Geology of Saddle Mountain State Park and vicinity: Geol. Soc. Oregon Country News Letter, vol. 2, no. 24, pp. 4-10 (\*), Dec. 1936.

Leaver, Edmund S.

38 (and staff) Progress Reports, Metallurgical Division, 27. Ore-testing studies: U.S. Bur. Mines Rept. Inv. 3425 (\*), (Gold ore from Bourne district, Oregon, pp. 58-60) 1938.

41 (and staff) Progress Reports, Metallurgical Division, 46. Ore-testing studies: U.S. Bur. Mines Rept. Inv. 3569 (\*), (Gold ore from Cracker Creek district, Oregon, pp. 29-35) 1941.

42 (and staff) Progress Reports, Metallurgical Division, 53. Ore-testing studies: U.S. Bur. Mines Rept. Inv. 3629 (\*), (Gold-bearing tailings from Cracker Creek district, Oregon, pp. 58-65) 1942.

Lee, F. W.

38 Preliminary geophysical investigation of the Sourdough chromite deposit in Oregon; (In) Chromite deposits in Oregon, by John Eliot Allen: Oregon Dept. Geology and Min. Industries Bull. 9, pp. 8-10 (\*), 1938.

Leever, William Hamilton

41 Origin of the mineral deposits of the North Santiam mining district, Oregon: Oregon State College Master's Thesis, 96 pp. (\*), 3 illus., 37 mounted photographs, 1 tbl., 7 maps (1 col. mounted, 1 folded), bibliography, Corvallis, 1941.

AUTHOR INDEX - Leonard to Libbey

Leonard, Frederick Charles

39a Preliminary announcement of the Goose Lake, California, meteorite: Science, n.s., vol. 89, no. 2318, p. 508, June 1939.

39b The Goose Lake siderite, California's largest known meteorite: Pac. Mineralogist, vol. 6, no. 1, pp. 3-4, 1 fig., July 1939; Pop. Astronomy, vol. 47, no. 6, pp. 322-324, 2 figs., June-July 1939; Soc. Research on meteorites Contr., vol. 2, no. 2, pp. 113-115, 2 figs., 1939.

Levorsen, Arville Irving

41a (and others) Possible future oil provinces of the United States and Canada; A symposium conducted by the Research committee of the American Association of Petroleum Geologists, A. I. Levorsen, chairman; papers read at the 26th Annual meeting of the association at Houston, Texas, April 1941, and published in the Association Bulletin, August 1941: Am. Assoc. Petroleum Geologists Bull., vol. 25, no. 8, pp. 1433-1586, 94 figs. incl. index and geol. maps, Aug. 1941; correction, no. 12, p. 2194, Dec. 1941; reprinted in book form by A.A.P.G., 1941.

41b Possible future oil provinces of the United States and Canada; Foreword: Am. Assoc. Petroleum Geologists Bull., vol. 25, no. 8, pp. 1433-1439, 2 figs. incl. index map, Aug. 1941; reprinted in book form by A.A.P.G., 1941.

Libbey, Fay Wilmott

38a Progress report on Coos Bay coal field: Oregon Dept. Geology and Min. Industries Bull. 2, 14 pp. (\*), 4 pls. incl. index maps, Jan. 1938.

38b Beryllium, the metal that slept a hundred years: Geol. Soc. Oregon Country News Letter, vol. 4, no. 17, pp. 190-200 (\*), 22 pls. incl. map, Sept. 1938.

39 Dredging of farmland in Oregon: Oregon Dept. of Geology and Min. Industries Bull. 19, 40 pp. (\*), 10 pls., 1939.

40a Gold in Oregon: Geol. Soc. Oregon Country News Letter, vol. 6, no. 8, pp. 57-64 (\*), April 1940.

40b Oregon's quicksilver industry: Min. Cong. Jour., vol. 26, no. 10, pp. 13-17, 64, 2 tbls., 2 figs., illus., Oct. 1940.

40c Oswego iron: Geol. Soc. Oregon Country News Letter, vol. 6, no. 22, pp. 195-197 (\*), Nov. 1940.

40d Oregon's mineral industries and mineral resources (abstract): Geol. Soc. America Bull., vol. 51, no. 12, pt. 2, pp. 2026-2027, Dec. 1940.

41 Notes on Oregon nickel: Geol. Soc. Oregon Country News Letter, vol. 7, no. 8, p. 80 (\*), 1941.

42 (and Allen, John Eliot, Treasher, Raymond Clarence, Lancaster, Hugh K.) Manganese in Oregon: Oregon Dept. Geology and Min. Industries Bull. 17, 78 pp. (\*), 3 pls., 1942.

43a Some mineral deposits in the area surrounding the junction of the Snake and Imnaha Rivers in Oregon: Oregon Dept. Geology and Min. Industries Short Paper no. 11, 17 pp. (\*), 5 pls., 1943.

43b Aluminum from clay: Ore.-Bin, vol. 5, no. 8, pp. 47-50, Aug. 1943.

44a (and Lowry, Wallace Dean, Mason, Ralph Stevenson) Preliminary report on high-alumina iron ores in Washington County, Oregon: Oregon Dept. Geology and Min. Industries Short Paper no. 12, 23 pp. (\*), 9 pls., 1944.

44b Mineral leasing bill: Ore.-Bin, vol. 6, no. 7, pp. 48-51, July 1944.

AUTHOR INDEX - Libbey to Lowell

Libbey, Fay Wilmott (cont.)

45a Alumina for northwest aluminum plants: Min. Cong. Jour., vol. 31, no. 3, pp. 34-39, 6 illus., map, March 1945.

45b (and Lowry, Wallace Dean, Mason, Ralph Stevenson) Ferruginous bauxite deposits in northwestern Oregon: Oregon Dept. Geology and Min. Industries Bull. 29, 97 pp. (\*), 12 figs., 5 loc. maps, map in pocket, 1945.

45c An outline of Oregon's mineral industry: Oregon Business Rev., vol. 4, no. 4, pp. 1, 9-14, 2 figs., May 1945.

---

Lilley, Ernest R.

36 Economic geology of mineral deposits: Henry Holt & Co., (Oregon: pp. 152, 247, 425, 553, 574, 748, 749, 766, 769, 772) 1936.

---

Lilly, Frank

40 1939 in retrospect - 1940 in prospect: Northwest Min. News, vol. 6, no. 1, pp. 3-7, 10-11, Jan. 1940.

---

Lobeck, Armin Kohl

41 Geologic map of the United States (with text on back): The Geog. Press, Columbia Univ., New York, 1941.

---

Lohman, Kenneth Elmo

36 Diatoms in the Mascall formation from Tipton and Austin, Oregon; (In) A Miocene flora from the Blue Mountains, Oregon, by Elizabeth Sumner Oliver: Carnegie Inst. Washington Pub. 455, pp. 9-12, Oct. 1936, preprint, Nov. 1934.

---

Longwell, Chester R.

44 (and others) Tectonic map of the United States: Prepared under the direction of the Committee on Tectonics, C. R. Longwell, Chairman, Division of Geology and Geography, National Research Council, Amer. Assoc. of Petroleum Geologists, 80 x 50 inches, scale 1:2,500,000, 7 colors, 1944; (Reviews) Econ. Geology, vol. 40, no. 1, pp. 62-67, 1945; Am. Assoc. Petroleum Geologists Bull., vol. 28, no. 12, pp. 1767-1774, Dec. 1944.

---

Loofbourow, John S., Jr.

43 High-alumina clay deposits at Hobart Butte, Lane County, Oregon; preliminary report as of July 23, 1943: U.S. Geol. Survey Strategic Minerals Inv., unpub. ms., 14 pp. (\*), 9 figs., July 1943.

---

Loomis, Frederic Brewster

37 Physiography of the United States: viii, 350 pp., illus., Doubleday, Doran & Co., Inc., Garden City, N.Y., 1937.

---

Lorain, S. H.

38 Gold mining and milling in northeastern Oregon: U.S. Bur. Mines Inf. Circ. 7015, 46 pp. (\*), 13 figs., 1938.

---

Lowell, Wayne Russell

See also Smith, Warren DuPre, 41a

39 Glaciation in the Wallowa Mountains: Univ. of Chicago, Master's Thesis, 90 pp. (\*), 35 figs., June 1939.

42 The paragenesis of some gold and copper ores of southwestern Oregon: Econ. Geology, vol. 37, no. 7, pp. 557-595, 15 figs., Nov. 1942; Univ. of Chicago Doctorate Thesis, 4 tabs., 8 figs., (\*), June 1942.

AUTHOR INDEX - Lowell to Luper

Lowell, Wayne Russell (cont.)

43 The history of geology in Oregon as revealed by a statistical analysis of the literature: Northwest Sci., vol. 17, no. 2, pp. 26-34, 6 figs., 5 tabs., May 1943.

Lowry, Wallace Dean

See also Libbey, Fay Wilmott, 43, 44  
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40 The geology of the Bear Creek area, Crook and Deschutes counties, Oregon: Oregon State College Master's Thesis, 78 pp. (\*), 22 mounted photographs, 3 maps (1 folded) (1 mounted), bibliography, Corvallis, 1940.

43a Geology of the northeast quarter of the Ironside Mountain quadrangle, Baker and Malheur counties, Oregon: Univ. of Rochester, Doctorate Thesis, 107 pp. (\*), 7 figs., 33 pls., 1 map, appendix (see Bowman, Flora Jean), Rochester, 1943.

43b An investigation of the Tyrell manganese deposit and other similar properties in the Lake Creek district, Oregon: Oregon Dept. Geology and Min. Industries Short Paper no. 10, 10 pp. (\*), 6 pls., 3 figs. incl. geol. map, 1943.

43c (and Mason, Ralph Stevenson)  
Eugene sand foundry tests: Oregon Dept. Geology and Min. Industries misc. paper, 14 pp. (\*), 8 figs., 1943.

43d Calcite occurrences near the Owyhee reservoir, Malheur County, Oregon: Oregon Dept. Geology and Min. Industries misc. paper, 6 pp. (\*), 2 figs., 1943.

44 Memorandum on steel foundry sand at Eugene, Oregon: Oregon Dept. Geology and Min. Industries misc. paper, 5 pp. (\*), March 1944.

45a Eugene silica foundry sand: Ore.-Bin, vol. 7, no. 2, pp. 9-15, Feb. 1945.

45b Eugene silica sand casting results obtained by Oregon Steel Foundry, Portland, Oregon: Oregon Dept. Geology and Min. Industries misc. paper, 6 pp. (\*), 3 pls., May 1945.

45c (and Allen, John Eliot)  
Investigation of the sea cliff subsidence of March 30, 1943, at Newport, Oregon (abstract): Geol. Soc. Oregon Country News Letter, vol. 11, no. 15, p. 99 (\*), 1945.

Luper, Ralph Leonard

See also Freeman, Otis Willard, 45

37a Construction of the Silvies surface of central Oregon (abstract): Geol. Soc. America Proc. 1936, p. 319, June 1937.

37b Evaluation of Jurassic inter-continental correlations: Northwest Sci., vol. 11, no. 3, pp. 64-68, Aug. 1937.

39 Stratigraphic record of the Jurassic in central Oregon (abstract): Geol. Soc. America Bull., vol. 50, no. 12, pt. 2, p. 1955, Dec. 1939.

41 Jurassic stratigraphy of central Oregon: Geol. Soc. America Bull., vol. 52, no. 2, pp. 219-269, 4 pls., 3 figs. incl. index and geol. maps, Feb. 1941.

42 (and Warren, Walter Cyrus) The Asotin stage of the Snake River Canyon near Lewiston, Idaho: Jour. Geology, vol. 50, no. 7, pp. 866-881, 4 figs. incl. index, geol. maps, Oct.-Nov. 1942.

44 Clastic dikes of the Columbia Basin region, Washington and Idaho: Geol. Soc. America Bull., vol. 55, no. 12, pp. 1431-1462, 6 pls., 2 figs., Dec. 1944.

45 Clarkston stage of the northwest Pleistocene: Jour. Geology, vol. 53, no. 5, pp. 337-348, Sept. 1945.

AUTHOR INDEX - MacCurdy to Matthes

MacCurdy, George Grant

See also Colbert, Edwin Harris, 37

37 (editor) Early man, as depicted by leading authorities at the International symposium, The Academy of Natural Sciences: 363 pp., illus., J. B. Lippincott Co., Philadelphia and New York, March 1937.

---

MacGinitie, Harry Dunlap

38 Geologic relations along the southwest border of the Klamath Mountains (abstract): Geol. Soc. America Proc. 1937, p. 247, June 1938.

43 Central and southern Humboldt County (California): California Dept. Nat. Res., Div. Mines Bull. 118, pp. 633-635, 4 figs. incl. index and geol. sketch maps, March 1943.

---

Mackay, Donald Kenneth

38 Geological report on part of the Clarno basin, Wheeler and Wasco counties, Oregon: Oregon Dept. Geology and Min. Industries Bull. 5, 12 pp. (\*), 1 pl. geol. sketch map, 6 figs., 1938.

---

Mackin, Joseph Hoover

40 (Review of) Geology of the lower Columbia River, by Edwin T. Hodge: Jour. Geomorphology, vol. 3, no. 1, pp. 70-75, Feb. 1940.

41 Mounded fans in the Columbia Plateau area, Washington (abstract): Northwest Sci., vol. 15, no. 4, p. 80, Nov. 1941.

---

Magness, H. N.

41 (and Sandoz, M. F.) Erosion and

related land use conditions on the Chehalem Mountain demonstration project, Oregon: U.S. Dept. Agr., Soil Conservation Service, Erosion Survey No. 20, pp. 1-37, 6 figs., 11 tabs., 11 map sheets, 1941.

---

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---

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Mason, Ralph Stevenson

See also Libbey, Fay Wilmott, 44, 45b

43 Present coal situation in Portland-Vancouver area: Oregon Dept. Geology and Min. Industries misc. paper, 6 pp. (\*), 4 tabs., Dec. 1943.

44 Progress report on coal mining activities in the Coos Bay Coal field, Oregon: Oregon Dept. Geology and Min. Industries misc. paper, 5 pp. (\*), 2 figs., Nov. 1944.

---

Matthes, Francois Emile

39a How old are our glaciers?: National Park Service Bull., June 1939; (reprint) Geol. Soc. Oregon Country News Letter, vol. 5, no. 13, pp. 119-120 (\*), July 1939.

39b The glaciers of our own time: Mazama, vol. 21, no. 12, pp. 20-26, 4 figs., Dec. 1939.

43 (and Phillips, Kenneth N.) Surface ablation and movement of the ice on Eliot Glacier (Mount Hood, Oregon): Mazama, vol. 25, no. 12, pp. 17-23, 1 pl., 3 figs., Dec. 1943.

AUTHOR INDEX - Matthes to McNaughton

Matthes, Francois Emile (cont.)

41-45 Report of the committee on  
glaciers: Am. Geophys. Union Trans.,  
22d Ann. Meeting, pt. 3, pp. 1006-1011 (\*),  
Aug. 1941; 23d Ann. Meeting, pt. 2,  
pp. 374-392 (\*), Nov. 1942; 24th Ann.  
Meeting, pt. 2, pp. 389-401 (\*), Jan. 1944;  
25th Ann. Meeting, pt. 5, pp. 677-683 (\*),  
April 1945.

---

Mazama Research Committee

See also Collins, J. Russell, 37

36 An aerial photographic survey of  
the glaciers of Mt. Adams, Mt. Rainier,  
and Mt. St. Helens, Washington: 62 pp.  
of photographs and maps (\*), Portland,  
1936.

38 An aerial photographic survey of  
the glaciers of Mt. Hood, Mt. Jefferson,  
and the Three Sisters, Oregon: 48 pp. of  
photographs and maps (\*), Portland, 1938.

43 Aerial photographs of Mt. St. Helens,  
Washington: 32 plates with acetate over-  
lays (\*), Portland, 1943 (?).

---

McArthur, Lewis A.

44 Oregon geographic names: 2d. ed.,  
581 pp., Binfords & Mort, Portland, 1944.

42-44 More Oregon geographic names;  
supplements to Oregon geographic names,  
1928: Oregon Hist. Quart., vol. 43,  
pp. 299-317, 1942; vol. 44, pp. 1-18,  
176-218, 286-312, 339-360, 1943; vol. 45,  
pp. 42-74, 1944.

---

McCaskey, Hiram Dryer

19 (and Burchard, E. F.) Our mineral  
supplies: U.S. Geol. Survey Bull. 666,  
221 pp., charts, 1919.

---

McDougall, G. F.

36 (and others) Duties and functions  
of State Department of Geology and Mineral  
Industries: Oregon State Planning Board,  
Rept. 37, 37 pp. (\*), Aug. 1936.

---

McGrew, Paul Orman

41 The Aplodontoidea: Field Mus. Nat.  
History Pub. 510, Geol. ser., vol. 9,  
no. 1, pp. 1-30, 13 figs., Dec. 1941.

---

McLaughlin, W. T.

39 Planting for topographic control  
on the Warrenton, Oregon, coastal dune  
area: Northwest Sci., vol. 13, no. 2,  
pp. 26-32, 7 figs., May 1939.

---

McLeod, Edith

41a Another occurrence for mesolite  
in Oregon: Rocks and Minerals, vol. 16,  
no. 2, p. 50, Feb. 1941.

41b Ice caves in northern California:  
Rocks and Minerals, vol. 16, no. 9,  
p. 333, Sept. 1941.

---

McMacken, Joseph G.

37 Vicissitudes of Spokane River:  
Pan-Am. Geologist, vol. 68, no. 2,  
pp. 111-132, Sept. 1937.

---

McNaughton, E. B.

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---

AUTHOR INDEX - Melcher to Meyer

Melcher, Norwood B.

See also Ridgeway, Robert H., 38-40

41-43 Manganese and manganiferous ores: U.S. Bur. Mines Minerals Yearbook for Calendar Year 1941, pp. 588, 589, 591; 1942, pp. 617, 620; 1943, pp. 609, 610, 613.

Melhase, John

38a Precious opal in Oregon: Mineralogist, vol. 6, no. 9, pp. 5-6, 29, 1 fig. index map, Sept. 1938.

38b Unusual opal at Klamath Falls, Oregon: Mineralogist, vol. 6, no. 11, pp. 26, 27, Nov. 1938.

Merriam, Charles Warren

See also Read, Charles Brian, 40

40 (and Berthiaume, Sheridan Alba) Late Paleozoic history of central Oregon (abstract): Geol. Soc. America Bull., vol. 51, no. 12, pt. 2, p. 1935, Dec. 1940.

41 Fossil Turritellas from the Pacific Coast region of North America: California Univ. Dept. Geol. Sci. Bull., vol. 26, no. 1, pp. 1-214, 43 pls., incl. index maps, 18 figs., March 1941.

42 Carboniferous and Permian corals from central Oregon: Jour. Paleontology, vol. 16, no. 3, pp. 372-381, 4 pls., May 1942.

43 (and Berthiaume, Sheridan Alba) Late Paleozoic formations in central Oregon: Geol. Soc. America Bull., vol. 54, no. 2, pp. 145-171, Feb. 1943.

Merriam, John Campbell

38 Published papers and addresses of John Campbell Merriam: Carnegie Inst. Washington Pub. 500, 4 vols., illus., Washington, D.C., 1938.

42 (and others) Paleontology, early man, and historical geology: Carnegie Inst. Washington Yearbook 40, 1940-41, pp. 316-333, 1941; 1941-42, Yearbook 41, pp. 284-297, 1942.

Merriam, Richard

45 Magmatic differentiation in gabbro sills near Ashland, Oregon: Am. Jour. Sci., vol. 243, pp. 456, 465, Aug. 1945.

Merrill, Charles White

35-44 (and Gaylord, H. M.) Gold, silver, copper, lead, and zinc in Oregon: U.S. Bur. Mines Minerals Yearbook for Calendar Year 1935, pp. 323-329; 1936, 447-497; 1937, pp. 407-420; 1938, 435-448; 1939, pp. 417-431; 1940, pp. 421-434; 1941, pp. 431-444; 1942, pp. 457-470; 1943, pp. 442-451; 1944, pp. 420-429.

45 Oregon metal production figures for 1944: Min. Jour., vol. 28, p. 44, Arizona, Feb. 1945.

Merrill, George Perkins

10 The nonmetallic minerals, their occurrence and uses: John Wiley & Sons, 2d ed., revised, p. 72, 1910. (Klamath County diatomite)

Meyer, H. M.

35-44 Mercury: U.S. Bur. Mines Minerals Yearbook for Calendar Year 1935, pp. 418-419; 1936, p. 689; 1937, pp. 602-603; 1938, pp. 662, 665; (and A. W. Mitchell) 1939, pp. 666, 670; 1940, pp. 654, 656, 657, 660; 1941, pp. 692, 696; 1942, pp. 720, 721, 724; 1943, pp. 716, 717, 721, 725; 1944, pp. 704, 705, 709.

AUTHOR INDEX - Michener to Moon

Michener, Raymond T.

45 (and Wilson, Thomas I.) Effects of torrential rains near Heppner, Oregon: Northwest Sci., vol. 19, no. 2, pp. 31-33, May 1945.

---

Miller, Arthur K.

40 (and Furnish, William Madison) Studies of Carboniferous ammonoids; pts. 1-4: Jour. Paleontology, vol. 14, no. 4, pp. 356-377, 5 pls., 17 figs., 1 correl. tbl., July 1940; pts. 5-7, vol. 14, no. 6, A gastrioceratid from central Oregon, pp. 521-543, 4 pls., 7 figs., Nov. 1940.

---

Miller, Esther W.

43 Ceramics: Oregon Dept. Geology and Min. Industries Ore.-Bin, vol. 5, no. 9, pp. 53-56, Sept. 1943.

44 What's in a glaze?: Oregon Dept. Geology and Min. Industries Ore.-Bin, vol. 6, no. 2, pp. 7-12, Feb. 1944.

45 Ceramic testing: Oregon Dept. Geology and Min. Industries Ore.-Bin, vol. 7, no. 10, pp. 60-64, Oct. 1945.

---

Miller, O. L.

99 Baker City and the gold fields: Mining, vol. 4, no. 4, pp. 114-120, 8 illus., Oct. 1899, Spokane.

---

Miller, Raymond M.

36 Feasibility of establishing an iron and steel industry in the lower Columbia River area using electric pig iron furnaces: War Dept. Corps of Engineers, U.S. Army, Office of the Div. Engineer, North Pacific division (\*), 2 vols., 1936.

37 Feasibility of electrolytic zinc and cadmium production in the lower Columbia River area: War Dept., U.S. Army, Office of Div. Engineers, North Pacific division, no. 1, 79 pp., 1937.

38a Feasibility of the production of ferro-alloys in the Columbia River area: War Dept. Corps of Engineers, U.S. Army, Office of Div. Engineer, North Pacific division, no. 1, 134 pp. (\*), 1938.

38b Feasibility of a steel plant in the lower Columbia River area: Oregon Dept. Geology and Min. Industries Bull. 8, 55 pp. (\*), 25 tpls., 2 illus., 1938.

---

Miller, Robert Burns

36-39 (editor) Annotated bibliography of economic geology for 1936, vol. 9, nos. 1, 2, xvi, 433 pp., 1937; vol. 10, for 1937, nos. 1, 2, xvi, 445 pp., 1938; vol. 11, for 1938, nos. 1, 2, xvi, 391 pp., 1939. Lancaster, Pa., Econ. Geology Pub. Company, Lancaster, Pa.

---

Miller, T. H.

40-44 (and Ransome, A. L.) Antimony: U.S. Bur. Mines Minerals Yearbook for Calendar Year 1940, p. 713; 1941, p. 762; (and Meyer, H. M.) Copper: U.S. Bur. Mines Minerals Yearbook for Calendar Year 1942, p. 127; 1943, p. 134; 1944, p. 123.

---

Mitchell, A. W.

See Meyer, H. M., 35-44

---

Moon, Lowell B.

See Juliahn, C. E., 45

---

AUTHOR INDEX - Moore to Nichols

Moore, Bernard Nettleton

37 Nonmetallic mineral resources of eastern Oregon: U.S. Geol. Survey Bull. 875, viii, 180 pp., 16 pls. incl. index and geol. maps, 11 figs., 1937.

Moran, H. E.

See also Fieldner, A. C., 42

Morris, Samuel B.

42 Ground water, a vital national resource, Pacific Coast problems: Am. Water Works Assoc. Jour., vol. 34, no. 11, pp. 1615-1623, Nov. 1942.

Mosier, McHenry

44 Bureau of Mines exploration of mercury deposits to June 30, 1944: U.S. Bur. Mines Inf. Circ. 7299 (\*); (Black Butte, p. 10; Cordero, p. 11) 1944.

Mote, Richard Hodges

40 The geology of the Maury Mountain region, Crook County, Oregon: Oregon State College Master's Thesis, 78 pp. (\*), incl. 14 mounted photographs (1 folded), 3 maps (1 folded col.), 4 tabs., 1 folded col. diagr., bibliography, Corvallis, 1940.

Motz, Leslie L.

39 Some data on black sand investigations: Oregon Dept. of Geology and Min. Industries misc. paper, 10 pp. (\*), 5 tabs., 1939.

40 Industrial aluminum, a brief survey: Oregon Dept. Geology and Min. Industries Short Paper no. 2, 7 pp. (\*), 1940.

Mulryan, Henry

39 Fresh-water diatomite in the Pacific Coast region: Am. Inst. Min. Met. Eng. Tech. Pub. 1057, 8 pp., 3 figs., May 1939.

Mundorff, Maurice John

39 Geology of the Salem quadrangle, Oregon: Oregon State College Master's Thesis, 79 pp. (\*), 19 mounted photographs, 2 pls., 1 folded col. map, 2 diagrs., bibliography, Corvallis, 1939.

Neumann, Frank

40a United States earthquakes, 1937: U.S. Coast and Geodetic Survey Serial 619, 54 pp., 1 pl., 17 figs. incl. index map, 1940.

40b United States earthquakes, 1938: U.S. Coast and Geodetic Survey Serial 629, iv, 59 pp., 1 fig. index map, 1940.

43 United States earthquakes, 1940: U.S. Coast and Geodetic Survey Serial 647, 84 pp., 1 pl., 26 figs. incl. index maps, 1942; 1941, Serial 655, iv, 68 pp., 1 pl., 26 figs. incl. index map, 1943.

Newcomb, R. C.

40 Hypothesis for the periglacial "fissure polygon" origin of the Tenino mounds, Thurston County, Washington (abstract): Geol. Soc. Oregon Country News Letter, vol. 6, no. 21, pp. 182 (\*), 1940.

Nichols, Robert Leslie

See also Allen, Victor T., 45

38 (and Stearns, Charles E.) Fissure eruptions near Bend, Oregon (abstract): Geol. Soc. America Bull., vol. 49, no. 12, pt. 2, p. 1894, Dec. 1938.

AUTHOR INDEX - Nichols to Ober

Nichols, Robert Leslie (cont.)

39a Surficial banding and shark's-tooth projections in the cracks of basaltic lava: Am. Jour. Sci., vol. 237, no. 3, pp. 188-194, 2 pls., 3 figs., March 1939.

39b Viscosity of lava: Jour. Geology, vol. 47, no. 3, pp. 290-302, 2 figs. incl. index map, April-May, 1939.

40a Velocity of basaltic flows indicated by lava-trees (abstract): Am. Geophys. Union Trans. 21st Ann. Meeting, pt. 1, p. 357 (\*), Nat. Research Council, July 1940.

40b A lava fan near Bend, Oregon (abstract): Am. Geophys. Union Trans. 21st. Ann. Meeting, pt. 1, pp. 357-358 (\*), Nat. Research Council, July 1940.

41a The velocity of the Big Obsidian Flow, Bend, Oregon: Am. Geophys. Union Trans. 22d Ann. Meeting, pp. 504-505 (\*), Nat. Research Council, Aug. 1941.

41b Tree rings in lava (abstract): Geol. Soc. America Bull., vol. 52, no. 12, pt. 2, p. 1926, Dec. 1941.

44 Molalla high-alumina clay deposit, near Molalla, Clackamas County, Oregon; preliminary report: U.S. Geol. Survey Strategic Minerals Inv., unpub. ms., 24 pp. (\*), 12 figs., 2 tbls., April 1944.

Nicol, David

43 New west American species of the foraminiferal genus Elphidium: Jour. Paleontology, vol. 18, no. 2, pp. 172-185, 1 pl., 7 figs. incl. index map, March 1943.

Nighman, C. E.

43 (and Kenely, Martin L.) Chromite: U.S. Bur. Mines Minerals Yearbook for Calendar Year 1943, pp. 629-630.

Nininger, Harvey Harlow

39 Note on the Washougal, Washington, aerolite: Pop. Astronomy, vol. 47, no. 9, pp. 503-504, Nov. 1939; Soc. Research on Meteorites Contr., vol. 2, no. 2, pp. 141-142, 1939.

Nixon, Earl K.

39 Strategic minerals: Oregon Dept. Geol. and Min. Industries Ore.-Bin, vol. 1, no. 11, pp. 71-75, Nov. 1939; Oregon Journal, Oct. 27, 1939.

40 Oregon mining arrives: Geol. Soc. Oregon Country News Letter, vol. 6, pp. 171-173 (\*), Oct. 1940.

43 Coal situation in Portland-Vancouver area: Oregon Dept. Geology and Min. Industries misc. paper, 8 pp. (\*), map, Dec. 1943.

Nolan, Thomas Brennas

43 The Basin and Range province in Utah, Nevada, and California: U.S. Geol. Survey Prof. Paper 197-D, pp. iii, 141-196, 2 pls., 4 figs. incl. index maps, 1943.

Norbisrath, Hans

See Warren, Walter Cyrus, 45

Ober, Theodore Marion

38 Placer deposits on the Deschutes and Crooked Rivers of Oregon: Univ. Washington Bachelor of Science in mining engineering thesis, i-iii, 48 pp. (\*), L., incl. illus., maps, tbls., diagr., Seattle, 1938.

AUTHOR INDEX - O'Brien to Oregon Department of Geology and Mineral Industries

O'Brien, M.P.

36 (and Rindlaub, B.D.) The transportation of sand by wind at Clatsop Spit (abstract): Civil Engineering, May 1936; Geol. Soc. Oregon Country News Letter, vol. 2, no. 12, pp. 5-6 (\*), June 1936.

Oliver, Elizabeth Sumner

36a A Miocene flora from the Blue Mountains, Oregon, (with a section on diatoms in the Mascall formation from Tipton and Austin, Oregon, by Kenneth Elmo Lohman): Carnegie Inst. Washington Pub. 455, (preprint), Nov. 1943.

36b Miocene flora from the Blue Mountains of Oregon: Carnegie Inst. Washington Pub. 455, Washington, 1936; California Univ. Master's Thesis (\*), 1935.

O'Neill, Thomas Francis

39 The geology of the Stayton quadrangle, Oregon: Oregon State College Master's Thesis, 83 pp. (\*), incl. 8 mounted photographs, 1 folded map, 1 folded diagr., bibliography, Corvallis, 1939.

Oregon Agricultural Experiment Station

37 The ground-water problem in Oregon: Oregon Agr. Exp. Sta. Circ. 124, 20 pp., 6 figs. incl. index maps, June 1937.

Oregon Secretary of State

36-45 Oregon Blue Book: published biennially. 1935-6; 1937-8; 1939-40; 1941-42; 1943-44; 1945-46.

Oregon State Board of Higher Education

40 Physical and economic geography of Oregon: Oregon State Board of Higher Education, 319 pp., numerous plates and diagrams, 1940.

Oregon State Department of Geology and Mineral Industries

See also Strayer, W. H.

37 Mining laws of the State of Oregon: Oregon Dept. Geology and Min. Industries Bull. 1, 32 pp. (\*), 1937.

37-45 Biennial reports of Oregon State Dept. Geology and Min. Industries, 1st-4th (\*), 1937-1945: Bull. 13, 41 pp., 1939; Bull. 21, 57 pp., 1941; Bull. 25, 36 pp., 1943; Bull. 28, 30 pp., 1945.

39a List of mines in Oregon: Oregon Dept. Geology and Min. Industries, 32 pp. (\*), 1939.

39b Oregon metal mines handbook; Baker, Union, and Wallowa Counties: Oregon Dept. Geology and Min. Industries Bull. 14-A, 125 pp. (\*), 2 pls. index maps, 1939.

40 Oregon metal mines handbook; Coos, Curry, and Douglas Counties: Oregon Dept. Geology and Min. Industries Bull. 14-C, vol. 1, 133 pp. (\*), 1 pl., 1 fig., index maps, 1940.

41 Oregon metal mines handbook; Grant, Morrow, and Umatilla Counties: Oregon Dept. Geology and Min. Industries Bull. 14-B, 157 pp. (\*), 1 pl., 1 fig., index maps, 1941.

42 Oregon metal mines handbook; Josephine County: Oregon Dept. Geology and Min. Industries Bull. 14-C, vol. 2, sec. 1, 229 pp. (\*), 1 pl., index and geologic maps, 1942.

AUTHOR INDEX - Oregon Department Geology and Mineral Industries to Packard

Oregon Dept. Geology and Min.  
Industries (cont.)

43 Oregon metal mines handbook;  
Jackson County: Oregon Dept. Geology and  
Min. Industries Bull. 14-C, vol. 2, sec. 2,  
208 pp. (\*), 1 pl., index and geologic  
maps, 1943.

44 Geologic mapping in Oregon: Oregon  
Dept. Geology and Min. Industries, 1 sheet,  
8 x 11 in., bibliography on reverse  
(\*), 1942; (revised) 1944.

45 Topographic maps in Oregon, 1946:  
Oregon Dept. Geology and Min. Industries,  
1 sheet, 8 x 11 in., index on reverse (\*),  
Dec. 1945.

Oregon State Engineer

39 Streams and lakes in the state of  
Oregon: Compiled in Office of the State  
Engineer, Salem, Oregon, 279 pp. (\*), 1939.

Oregon State Highway Commission

38 Oregon, geologic and wild flower  
wonderland: 15 pp., map, illus., 1938 (?).

Oregon State Planning Board

See also McDougall, G.F., Treasher, R.C., 36

37 Water resources and watershed  
protection problems of Oregon municipalities:  
Oregon State Planning Board, 26 pp. (\*),  
Feb. 1937.

Osvald, Hugo

36 Stratigraphy and pollen flora of  
some bogs of the north Pacific Coast of  
America: Schweizer bet. Gesell. Ber.  
Band 46, pp. 489-504, 7 figs. incl. index  
map, 1936; Soc. bet. Suisse Bull. Band 46,  
pp. 489-504, 6 figs. incl. map, July 1936.

Packard, A.S., Jr.

77 Glacial marks on the Pacific and  
Atlantic coasts compared: Am. Naturalist,  
vol. 11, no. 11, pp. 674-680, Nov. 1877.

Packard, Earl Leroy

15 Evolution of the Pacific Coast  
Mactridae (abstract): Geol. Soc. America  
Bull., vol. 26, p. 170, 1915.

27 Report of researches (of Cretaceous  
rocks of the Mitchell quadrangle):  
Carnegie Inst. of Washington Yearbook no. 26,  
pp. 365-366, 1926-1927.

37 The Pleistocene mammals of Oregon:  
Geol. Soc. Oregon Country News Letter,  
vol. 3, no. 21, pp. 223-224 (\*), Nov. 1937.

40a Studies on relation of invertebrate  
faunas to geological history of John Day  
region of Oregon: Carnegie Inst. Washington  
Yearbook no. 39, pp. 295-296, 1939-1940.

40b The geological framework of Oregon:  
Physical and economic geography of Oregon,  
pp. 14-18, 2 figs. incl. geol. map, Oregon  
State Board of Higher Education (1940).

40c A new turtle from the marine Miocene  
of Oregon: Oregon State College Studies in  
Geology, no. 2, 31 pp., 4 pls., 2 figs.,  
Nov. 1940.

41 Additions to the vertebrate fauna  
of Astoria formation of Oregon (abstract):  
Geol. Soc. America Bull., vol. 52, no. 12,  
pt. 2, pp. 1981-1982, Dec. 1941.

42 Status of supposed fossil cirratulids  
from the Pacific coast: Jour. Paleontology,  
vol. 16, p. 778, Nov. 1942.

44 Additional information on the carapace  
of Psephophorus (?) Oregonensis Packard:  
Geol. Soc. Oregon Country News Letter,  
vol. 10, no. 16, pp. 99-100 (\*), 1944.

45 Why study fossils?: Oregon Dept.  
Geology and Min. Industries Ore.-Bin,  
vol. 7, no. 8, pp. 47-48, Aug. 1945.

AUTHOR INDEX - Page to Phillips

Page, Ben M.

39 Multiple alpine glaciation in the Leavenworth area, Washington: Jour. Geology, vol. 47, no. 8, pp. 785-815, Nov.-Dec. 1939.

Pardee, Joseph Thomas

40 Ripple marks (?) in glacial Lake Missoula, Montana, (abstract): Geol. Soc. America Bull., vol. 51, no. 12, pt. 2, pp. 2028-2029, Dec. 1940.

41 (and others) Preliminary geologic map of the Sumpter quadrangle, Oregon: Oregon Dept. Geology and Min. Industries, scale 1:96,000, text on back, 1941.

42 Unusual currents in glacial Lake Missoula, Montana: Geol. Soc. America Bull., vol. 53, no. 11, pp. 1569-1600, Nov. 1942.

Park, Charles Frederick, Jr.

See Piper, Arthur Maine, 39

Pecora, William Thomas

42 (and Hobbs, Samuel Warren) Nickel deposits near Riddle, Douglas County, Oregon: U.S. Geol. Survey Bull. 931-I, pp. 1-iii, 205-226, pls. 37-38, 3 figs. incl. index, geol., topog. maps, 1942; (abstract) Econ. Geology, vol. 36, no. 8, p. 841, Dec. 1941.

43 Geology of some nickel-silicate deposits (abstract): Econ. Geology, vol. 38, no. 1, p. 82, Jan.-Feb. 1942.

Perrenoud, Willy Pierre

34 Concentrating low-grade cinnabar ore of the Nonpareil Mine, Sutherlin, Oregon: Univ. of Washington Bachelor of Science Thesis, (\*), 1934.

Perry, Walter J.

See Cressman, Luther Sheeleigh, 38a

Petron, A.C.

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Pettit, Edison

36a On the color of Crater Lake water: Nat. Acad. Sci. Proc., vol. 22, no. 2, pp. 139-146, 2 pls., 7 figs., Feb. 1936.

36b Why is Crater Lake so blue?: Carnegie Inst. Washington News Service Bull., vol. 4, no. 4, 39-44, 1936.

Phillips, Clarence D.

36 Report of trip to upper Clackamas River: Geol. Soc. Oregon Country News Letter, vol. 2, no. 19, pp. 5-9 (\*), Oct. 1936.

Phillips, Kenneth N.

See also Collins, J. Russell, 37

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36 (Review of) A chemical study of the fumaroles of Mount Hood: Mazama, vol. 18, pp. 44-46, Dec. 1936.

38 Our vanishing glaciers; observations by Mazama research committee on glaciers of the Cascade Range in Oregon: Mazama, vol. 20, no. 12, pp. 24-41, 23 figs., Dec. 1938.

39 Farewell to Sholes Glacier (Mt. McLoughlin): Mazama, vol. 21, pp. 37-40, Dec. 1939.

AUTHOR INDEX - Phillips to Pruett

Phillips, Kenneth N. (cont.)

41a Cold in them thar hills?: Geol. Soc. Oregon Country News Letter, vol. 7, no. 9, pp. 85-87 (\*), 1941.

41b Fumaroles of Mount St. Helens and Mount Adams (Washington): Mazama, vol. 23, no. 12, pp. 37-42, 3 figs., Dec. 1941; Geol. Soc. Oregon Country News Letter, vol. 8, no. 5, pp. 27-32 (\*), (reprint) 1942.

42 Terminal speeds of some Cascade mountain glaciers: Mazama, vol. 24, no. 12, pp. 35-38, Dec. 1942.

Piper, Arthur Maine

37a Washougal mystery trip, July 5, 1937: Geol. Soc. Oregon Country News Letter, vol. 3, no. 15, pp. 171-173 (\*), Aug. 1937.

37b (Review of) Petrology of the later Tertiary and Quaternary rocks of the north-central Cascade Mountains in Oregon, with notes on similar rocks in western Nevada, by Thomas Prence Thayer: Geol. Soc. Oregon Country News Letter, vol. 3, no. 23, pp. 247-251 (\*), Dec. 1937.

39 (and Robinson, Thomas William, Jr., and Park, Charles Frederick, Jr.) Geology and ground-water resources of the Harney Basin, Oregon, with a statement on precipitation and tree growth, by Lorne Theodore Jessup: U.S. Geol. Survey Water-Supply Paper 841, vi, 189 pp., 20 pls. incl. geol. map, 9 figs., incl. index map, 1939.

40 Ground-water problems in the Pacific Northwest (abstract): Geol. Soc. America Bull., vol. 51, no. 12, pt. 2, p. 2029, Dec. 1940.

42 Ground-water resources of the Willamette Valley, Oregon: U.S. Geol. Survey Water-Supply Paper 890, v, 194 pp., 10 pls., 3 figs. incl. index and geol. maps, 1942.

Popenoe, Willis Parkison

37 Upper Cretaceous stratigraphy and fauna of the Redding quadrangle, northern California (abstract): Geol. Soc. America Proc. 1936, p. 95, June 1937.

38 Cretaceous stratigraphy and faunas of the Redding quadrangle, California (abstract): Geol. Soc. America Proc. 1937, p. 296, June 1938.

Portland Chamber of Commerce

Mineral resources of the Columbia River basin and adjacent territory: Report of Research Committee, n.d.

Pratt, Allyne F.

35 Geology of the Skamania (Washington) mining district: Geol. Soc. Oregon Country News Letter, vol. 1, no. 11, pp. 6-7 (\*), 1 fig., Aug. 1935.

Pruett, J. Hugh

39a The "Tree Meteorite" of LaPine, Oregon: Pop. Astronomy, vol. 47, pp. 150-151, 1939.

39b Meteorites: Geol. Soc. Oregon Country News Letter, vol. 5, no. 6, pp. 52-57 (\*), 1 pl., March 1939.

39c The Portland meteor of July 2, 1939: Geol. Soc. Oregon Country News Letter, vol. 5, no. 16, pp. 148-153 (\*), map, Aug. 1939.

39d The Washougal (Wash.) meteorite: Geol. Soc. Oregon Country News Letter, vol. 5, no. 19, pp. 177-181 (\*), 1 pl., Oct. 1939.

AUTHOR INDEX - Pruett to Reed

Pruett, J. Hugh (cont.)

39e The Willamette, Oregon, meteorite in history: Pop. Astronomy, vol. 47, no. 3, pp. 148-150, March 1939; Soc. Research on Meteorites Contr., vol. 2, no. 2, pp. 85-87, 1939.

39f The Washougal, Washington, aerolite: Pop. Astronomy, vol. 47, no. 9, pp. 500-503, 2 figs., Nov. 1939; Soc. Research on Meteorites Contr., vol. 2, no. 2, pp. 138-141, 2 figs., 1939.

43 Willamette meteorite: Geol. Soc. Oregon Country News Letter, vol. 9, no. 6, pp. 34-39 (\*), 2 pl., 1943.

Raisz, Erwin Josephus

41 Landforms of Oregon (relief map): Oregon Dept. Geology and Min. Industries, 1 sheet, 17 x 22 in., 1941.

42 Landforms of Northwestern States (In) The Pacific Northwest: Freeman, O.W., et. al., John Wiley & Sons, Inc., New York, 1942.

45 The Olympic-Wallowa lineament: Am. Jour. Sci., vol. 243-A, Daly Volume, pp. 479-485, 1945.

Ralston, Oliver C.

37 Annual report of nonmetals division, fiscal year 1937: U.S. Bur. Mines Inf. Circ. 6974, (chromite, diatomite) pp. 8, 9, 11 (\*), Oct. 1937.

41 (and Stern, A. George) Report of the Nonmetals Division, fiscal year 1941: U.S. Bur. Mines Rept. Inv. 3599 (Willamette Valley limestone flotation, pp. 23-34) (\*), 1941.

42 (and Stern, A. George) Report of the Nonmetals Division, fiscal year 1942: U.S. Bur. Mines Rept. Inv. 3675 (Mineral dressing of Oregon beach sands, pp. 17-18) (\*), 1942.

Rand, Irving

44 Mineral rights in revested Oregon lands: Oregon Dept. Geology and Min. Industries Ore.-Bin, vol. 6, no. 7, pp. 45-47 (\*), July 1944.

Ransome, A. L.

See also Miller, T. H., 40-41

43 Antimony: U.S. Bur. Mines Minerals Yearbook for calendar year 1942, p. 784, 1943.

44 Lead: U.S. Bur. Mines Minerals Yearbook for calendar year 1944, p. 156, 1944.

Ray, Margaret

See Smith, Warren DuPre, 38a

Read, Charles Brian

37 (and Brown, Roland Wilbur) American Cretaceous ferns of the genus Tempskya: U.S. Geol. Survey Prof. Paper 186-F, pp. 11, 105-131, 17 pls., 5 figs. incl. index map, 1937; (abstracts) Washington Acad. Sci. Jour., vol. 24, no. 4, p. 191, April 15, 1934; Geol. Soc. America Proc. 1933, p. 333, June 1934.

40 (and Merriam, Charles Warren) A Pennsylvanian flora from central Oregon: Am. Jour. Sci., vol. 238, no. 2, pp. 107-111, Feb. 1940.

Reed, John Calvin

37 Amygdales in Columbia River lavas near Freedom, Idaho: Am. Geophys. Union Trans., 18th Ann. Meeting, pt. 1, pp. 234-243 (\*), Nat. Research Council, April 1937.

41 The fiery floods that formed the Inland Empire: Nat. Hist., vol. 47, no. 4, pp. 200-210, 14 figs., April 1941.

AUTHOR INDEX - Reeds to Ridgway

Reeds, Chester A.

37 Catalogue of the meteorites in the American Museum of Natural History, as of October 1, 1935: Am. Mus. Nat. History Bull. 73, Art. 6, pp. 517-672, July 1937.

Reinhart, Philip Wingate

36 Pacific slope species incorrectly assigned to the pelecypod family Arcidae (abstract): Geol. Soc. America Proc. 1935, pp. 366-367, June 1936.

37 Cretaceous and Tertiary pelecypods of the Pacific slope incorrectly assigned to the family Arcidae: Jour. Paleontology, vol. 11, no. 3, pp. 169-180, 1 pl., April 1937.

43 Mesozoic and Cenozoic Arcidae from the Pacific slope of North America: Geol. Soc. America Spec. Paper 47, 117 pp., 15 pls., 3 figs., 1943.

Renton, J. Lewis

36 Opal or agate-filled "thunder eggs": Mineralogist, vol. 4, no. 1, pp. 12-13, 46-53, 2 figs., Jan. 1936.

Requa, L. K.

40 Geology and operation of the Idaho Almaden mine: Northwest Min. News, vol. 6, no. 23, pp. 7-9, Dec. 1940; no. 24, pp. 7-9, Dec. 1940.

Resser, Charles Elmer

42 Very ancient roses (U.S.): Am. Rose Annual, vol. 27, pp. 11-15, 1 pl., 1942.

Revitt, Edward M.

36 The gemstones of the Northwest: Northwest Min., ser. 2, vol. 1, no. 6, pp. 3-4, July 1936.

Rice, Clara Mabel

40 Dictionary of geological terms (exclusive of stratigraphic formations and paleontologic genera and species): 461 pp. (\*), Edwards Bros., Inc., Ann Arbor, Michigan, 1940.

Rice, W. E.

See Fieldner, Arno G., 42

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36 Glaciers studied from an airplane: Mazama, vol. 18, no. 12, pp. 47-56, 13 figs. incl. index map, Dec. 1936.

37 Photographic survey of the glaciers of Mt. Jefferson and the Three Sisters: Mazama, vol. 19, pp. 66-75, Dec. 1937.

39 Cowlitz Glacier on Mount Ranier: Geol. Soc. Oregon Country News Letter, vol. 5, no. 17, pp. 157-159 (\*), 1 fig., Sept. 1939.

Ridgway, Robert H.

38-40 Chromite: U.S. Bur. Mines Minerals Yearbook for calendar year 1938: pp. 595-596; 1939, p. 594; (and Melcher, N. B.) 1940, p. 589.

AUTHOR INDEX - Ries to Ross

Ries, Heinrich

00 The clay-working industries of the Pacific Coast states: Mines and Minerals, vol. 20, pp. 487-488, 1900.

Rindlaub, B. D.

See O'Brien, M. P., 36

Roberts, Leslie E.

45 New find of Oregon zeolites: Mineralogist, vol. 13, no. 8, pp. 286, 287, Aug. 1945.

Roberts, Ralph Jackson

See Yates, Robert G., 41b

Robinson, Thomas William, Jr.

See Piper, Arthur Maine, 39

Rooke, William A.

34 Snowdrifts and the Palouse topography: Geog. Rev., vol. 24, pp. 380-385, 1934.

Rogers, Austin Flint

41 (and Howe, Henry Van Wagenen, and Staples, Lloyd William) Trachytoid nepheline syenite from Lincoln County, Oregon (abstract): Geol. Soc. America Bull., vol. 52, no. 12, pt. 2, pp. 1955-1956, Dec. 1941.

Rogers, Nelson S.

See Woods, John B., 43

Ross, Clyde Polhemus

38 The geology of part of the Wallowa Mountains: Oregon Dept. Geology and Min. Industries Bull. 3, 74 pp., 1 pl., geol. map, 10 figs. incl. index map, Jan. 1938; (abstract) Geol. Soc. Oregon Country News Letter, vol. 4, no. 3, p. 11 (\*), Feb. 1938.

41a Some quicksilver prospects in adjacent parts of Nevada, California, and Oregon: U.S. Geol. Survey Bull. 931-B, pp. 111, 23-37 (\*), 3 pls., index, topog. and geol. maps, 1 fig. geol. sketch map, 1941.

41b (and Carr, Martha S.) Part I, The metal and coal mining districts of Idaho, with notes on the nonmetallic mineral resources of the state; Part II, Annotated bibliography with 842 references, to April 15, 1941: Idaho Bur. Mines and Geology Pamph. 57, 263 pp, viii (\*), Dec. 1941.

42a Quicksilver deposits in the Steens and Pueblo Mts., southern Oregon: U.S. Geol. Survey Bull. 931-J, pp. 111, 227-258 (\*), pls. 39-44, 1942.

42b Some concepts on the geology of quicksilver deposits in the United States: Econ. Geology, vol. 37, no. 6, pp. 439-465, 1 fig., index map, Sept.-Oct. 1942.

42c Mercury mining today in the United States: Eng. & Min. Jour., vol. 143, no. 9, pp. 55-58, 4 figs., Sept. 1942.

Ross, Clarence Samuel

41 Origin and geometric form of chalcedony-filled spherulites from Oregon: Am. Mineralogist, vol. 26, no. 12, pp. 727-732, 8 figs., Dec. 1941; (Reprint) Mineralogist, vol. 10, no. 6, pp. 171-174, 192-193, 8 figs., June 1942.

AUTHOR INDEX - Ross to Scheffer

Ross, Robert N.

37 Oregon coast good collecting field: Mineralogist, vol. 5, no. 12, p. 12, Dec. 1937. (Newport, 10-mile Beach, Agate Beach; agate, jasper, *Teredo* woods)

---

Ruff, Lloyd L.

See also Smith, Warren DuPre, 38b

44 Quicksilver - a visit to Black Butte mine: Geol. Soc. Oregon Country News Letter, vol. 10, no. 19, pp. 115-116 (\*), no. 20, pp. 120-121 (\*), Oct. 1944.

45 Reconnaissance geology of the Snake River canyon, Oregon-Idaho (abstract): Geol. Soc. Oregon Country News Letter, vol. 11, no. 6, p. 33 (\*), 1945.

---

Russell, Israel Cook

01 Geology and water resources of Nez Perce County, Idaho: U.S. Geol. Survey Water-Supply Paper, pt. I, no. 53, 1901; pt. II, no. 54, 1901.

---

Russell, Richard Dana

See Anderson, Charles Alfred, 40

---

Ruth, John W.

42 Molluscan genus Siphonalia of the Pacific Coast Tertiary: California Univ. Dept. Geol. Sci. Bull., vol. 26, no. 3, pp. 287-306, pl. 47-48, 1942.

---

Sampson, Edward

42 Chremite deposits: (In) Ore deposits as related to structural features, edited by W. H. Newhouse, Princeton Univ. Press, pp. 110-125, 25 figs. incl. geol. sketch maps, 1942.

---

Sanborn, Ethel Ida

36 The prehistoric forests of Oregon: Geol. Soc. Oregon Country News Letter, vol. 2, no. 20, pp. 3-8 (\*), Oct. 1936.

37 The Comstock flora of west central Oregon; Eocene flora of western America: Carnegie Inst. Washington Pub. 465, pp. 1-28, 1937.

38 A preliminary report on the Eocene flora from Franklin Butte, Oregon: Northwest Sci., vol. 12, no. 4, p. 91, Nov. 1938.

---

Sandoz, M. P.

See Magness, H. N., 41

---

Santmyers, R. M.

See Tyler, Paul, 31

---

Schaller, Waldemar Theodore

33 Johannsenite, a new manganese pyroxene (abstract): Am. Mineralogist, vol. 18, no. 3, p. 113, March 1933.

37 Crystallography of valentinite ( $\text{Sb}_2\text{O}_3$ ) and andorite (?) ( $2\text{PbS}\cdot\text{Ag}_2\text{S}\cdot3\text{Sb}_2\text{S}_3$ ) from Oregon: Am. Mineralogist, vol. 22, no. 5, pp. 651-666, May 1937.

---

Schaum, J. H.

44 Antimony: U.S. Bur. Mines Minerals Yearbook for calendar year 1943, p. 780, 1944.

---

Scheffer, Victor B.

See Dalquest, Walter W., 42

---

AUTHOR INDEX - Schenck to Schuette

Schenck, Hubert Gregory

36a (and Keen, Angeline Myra) West America marine molluscan provinces (abstracts): Pan-Am. Geologist, vol. 63, no. 5, pp. 375-376, June 1935; Geol. Soc. America Proc. 1935, p. 413, June 1936.

36b (and Kleinpell, Robert Minssen) Refugian stage of Pacific coast Tertiary: Am. Assoc. Petroleum Geologists Bull., vol. 20, no. 2, pp. 215-225, Feb. 1936.

36c Nuculid bivalves of the genus Acila: Geol. Soc. America Spec. Paper 4, xiv, 149 pp., 18 pls. incl. physiog. map of California, 15 figs. incl. geol. and geog. maps, July 1936; (abstracts) Geol. Soc. America Bull., vol. 47, no. 1, pp. 288-289, March 1932; Pan Am. Geologist, vol. 56, no. 1, p. 68, Aug. 1931.

37 Index-method for comparing molluscan faunules: Am. Philos. Soc. Proc., vol. 77, no. 2, pp. 161-182, 1937.

39 (and Kleinpell, Robert Minssen) Regional significance of the Gaviota Foraminifera of California (abstract): Geol. Soc. America Bull., vol. 50, no. 12, pt. 2, p. 1973, Dec. 1939.

40 (and Keen, Angeline Myra) California fossils for the field geologist (Preliminary edition): 86 pp. (\*), 56 pls., Stanford Univ., 1940.

45 Geologic application of biometrical analysis of molluscan assemblages: Jour. Paleontology, vol. 19, no. 5, pp. 504-521, Sept. 1945.

Schenk, Edward Theodore

35 A new ammonite genus from the upper Triassic of central Oregon: Am. Midland Naturalist, vol. 16, no. 3, pp. 401-405, 1 pl., May 1935; (abstracts) Pan-Am. Geologist, vol. 63, no. 5, p. 372, June 1935; Geol. Soc. America Proc. 1935, p. 410, June 1936.

Schminky, H. Bruce

37 Milwaukie and Oregon City trip: Geol. Soc. Oregon Country News Letter, vol. 3, no. 2<sup>4</sup>, pp. 258-259 (\*), Dec. 1937.

38 The G.S.O.C. summer camp at Wallowa Lake: Geol. Soc. Oregon Country News Letter, vol. 4, no. 23, pp. 258-268 (\*); no. 24, pp. 272-276 (\*), Dec. 1938.

Schofield, S. J.

41 Cascadia: Am. Jour. Sci., 5th ser., vol. 239, pp. 701-71<sup>4</sup>, 1941.

Schepf, James M.

45 (and Cress, Aureal T.) Plant microfossil investigation in western coals - a progress report: Geol. Soc. America Bull., vol. 56, no. 12, pt. 2, p. 1194, Dec. 1945; (abstract) Jour. Geology, vol. 40, no. 8, p. 604, Dec. 1945.

Schuchert, Charles

38a (Review of) Tertiary stratigraphy of western Washington and northwestern Oregon, by Charles Edwin Weaver, Am. Jour. Sci., 5th ser., vol. 35, no. 206, p. 153, Feb. 1938.

38b (Review of) Methods in paleontology, by Charles Lewis Camp and G. Dallas Hanna: Am. Jour. Sci., 5th ser., vol. 36, no. 213, p. 231, Sept. 1938.

Schuette, Curt Nicolaus

See also Duschak, L. H., 25

38 Quicksilver in Oregon: Oregon Dept. Geology and Min. Industries Bull. 4, 172 pp., 16 pls. incl. index and paleogeog. maps, 57 figs., 1938.

AUTHOR INDEX - Scott to Skinner

Scott, William Berryman

37 A history of land mammals in the western hemisphere: Rev. ed. xiv, 786 pp., illus., Macmillan Co., New York, 1937.

Sellards, E. H.

40 Early man in America; index to localities and selected bibliography: Geol. Soc. America Bull., vol. 51, pp. 373-432, 1 pl., 4 figs., March 1940.

Seward, Sir Albert Charles

39 The story of the maidenhair tree: Smithsonian Inst. Ann. Rept. 1938, Pub. 3491, pp. 441-460, 2 figs. incl. index map, 1939.

Shedd, Solon

38-39 Bibliography of the geology and mineral resources of California;...For the years 1931 to 1936, inclusive (supplementing the master bibliography, Bull. 104): California Div. Mines Bull. 115, xiv, 129 pp., 1938; For the year 1937 (supplementing Bulls. 105 and 115 of the Division of Mines): California Jour. Mines and Geology, vol. 35, no. 3, pp. 275-307, July 1939, (Jan. 1940).

Shenon, Philip John

42 Copper deposits in serpentine in southwestern Oregon and in northwestern California as illustrated by the Cowboy mine: (In) Ore deposits as related to structural features, edited by W. H. Newhouse, Princeton Univ. Press, pp. 244-245, 2 figs. incl. geol. map, 1942.

Shepard, Francis Parker

35 Submarine canyons of the American coasts: Zeitschr. Geomorphologie, Band 9, Heft 2/3, pp. 99-105, 3 figs., maps, Sept. 1935.

38 (and Beard, Charles N.) Submarine canyons, distribution and longitudinal profiles: Geog. Rev., vol. 28, no. 3, pp. 439-451, 5 figs. incl. index map, July 1938.

41 (and Emery, K.O.) Submarine topography off the California coast; canyons and Tectonic interpretation: Geol. Soc. America Spec. Paper 31, xiii, 171 pp., 22 pls. incl. charts, 42 figs. incl. index maps, May 1941.

Shimer, Hervey W.

44 (and Shrock, Robert R.) Index fossils of North America: 837 pp., 303 pls., 5 figs., John Wiley & Sons, New York, 1944.

Shrock, Robert R.

See Shimer, Hervey W., 44

Simpson, George Gaylord

41 Large Pleistocene felines of North America: Am. Mus. Novitates 1136, 27 pp., 11 figs., Aug. 1941.

45 Notes on Pleistocene and Recent tapirs: Am. Mus. Nat. History Bull., vol. 88, art. 2, pp. 37-81, 1945.

Skinner, Kenneth G.

44 (and others) Diatomites of the Pacific Northwest as filter aids: U.S. Bur. Mines Bull. 460, i-vi, 86 pp., 1944.

AUTHOR INDEX - Slocum to Smith

Slocum, Marjorie

40 Opal Butte, Oregon: Mineralogist, vol. 8, pp. 475-476, Nov. 1940.

Smith, Helen V.

38 Some new and interesting late Tertiary plants from Sucker Creek, Idaho-Oregon boundary: Torrey Bot. Club Bull., vol. 65, no. 8, pp. 557-564, 19 figs., Nov. 1938.

39a Additions to the fossil flora of Sucker Creek, Oregon: Michigan Acad. Sci. Papers 1938, vol. 24, pp. 107-121, 7 pls., 1939.

39b A flora of eastern American aspect in the Miocene of Idaho: Torrey Bot. Club Bull., vol. 66, no. 7, pp. 465-481, 22 figs., Oct. 1939.

40 Notes on the systematic and ecological implications of the Miocene flora of Sucker Creek, Oregon and Idaho: Am. Midland Naturalist, vol. 24, no. 2, pp. 437-443, Sept. 1940.

Smith, John Eliphalet

38 "Lake Labish," Oregon (abstract): Geol. Soc. America Proc. 1937, pp. 325-326, June 1938.

Smith, Warren DuPre

36 (and Swartzlow, Carl Robert) Mount Mazama (Oreg.); explosion versus collapse: Geol. Soc. America Bull., vol. 47, no. 12, pp. 1809-1830, 6 pls., 5 figs. incl. index map, Dec. 1936; Oregon Univ. Mon., Studies in Geology and Geography 1, (Feb. 1937); (abstracts) Pan-Am. Geologist, vol. 63, no. 4, p. 305, May 1935; vol. 65, no. 3, pp. 239-240, April 1936; (Digest) Geol. Soc. Oregon Country News Letter, vol. 3 (\*), pp. 98-100, 1937.

38a (and Ray, Margaret) Geological and geographic elements in the Willamette Valley project: Commonwealth Rev., vol. XX, no. 2, May 1938.

38b (and Ruff, Lloyd L.) The geology and mineral resources of Lane County, Oregon: Oregon Dept. Geology and Min. Industries Bull. 11, 65 pp., 27 figs. incl. index, relief, and geol. maps, 1938.

38c Highlights of a geological travelogue through Oregon: Geol. Soc. Oregon Country News Letter, vol. 4, no. 21, pp. 237-245 (\*); no. 22, pp. 248-249 (\*), Nov. 1938.

39 (and Greenup, Wilbur) Lakes of Oregon: Northwest Sci., vol. 13, no. 4, pp. 75-96, supplement, 1 p., 4 pls. incl. index map, 1 fig., Dec. 1939.

40a Pre-Tertiary correlation in the Pacific Basin, with special reference to Oregon and the Philippines: 6th Sci. Cong., 1939, Proc. vol. 1, pp. 429-435, 1940.

40b Physiographic sketch (of Oregon): (In) Physical and economic geography of Oregon, Oregon State Board of Higher Education, pp. 18-23, 1 fig., physiographic map, (1940).

40c Oregon shore line (abstract): Geol. Soc. America Bull., vol. 51, no. 12, pt. 2, p. 2033, Dec. 1940.

40d (and Hodge, Edwin Thomas, and Lomax, Alfred L.) The natural regions (of Oregon): (In) Physical and economic geography of Oregon, Oregon State Board of Higher Education, pp. 24-74, 1940.

41a (and Allen, John Eliot) Geology and physiography of the northern Wallowa Mountains, Oregon, with petrography by Lloyd William Staples (and) glaciation by Wayne Russell Lowell: Oregon Dept. Geology and Min. Industries Bull. 12, 64 pp. (\*), 12 pls. incl. geol. maps, 5 figs., incl. index map, 1941; (abstract) Geol. Soc. America Bull., vol. 52, pt. 1, p. 1956, Dec. 1941.

AUTHOR INDEX - Smith to Stearns

Smith, Warren DuPre (cont.)

41b Scenic treasure house of Oregon:  
177 pp., Binfords & Mort, Portland, 1941.

42 Geology and geomorphology of the  
region west of the Cascade Mountains: (In)  
The Pacific Northwest, edited by O. W.  
Freeman, pp. 41-57, John Wiley & Sons, Inc.,  
New York, 1942.

44 Summer excursion into central  
Oregon: Geol. Soc. Oregon Country News  
Letter, vol. 10, no. 1, pp. 3-5 (\*),  
Jan. 1944.

37-45 Oregon's salient geographic and  
geologic features: (In) Oregon Blue Book,  
Oregon Secretary of State, pp. 123-127,  
1937-1938; pp. 139-142, 1939-1940;  
pp. 162-166, 1941-1942; pp. 180-183,  
1943-1944; pp. 187-190, 1945-1946.

---

Southwick, E. A.

36a Thunder eggs: Rocks and Minerals,  
vol. 11, no. 7, p. 99, July 1936.

36b A drusy agate find: Rocks and  
Minerals, vol. 11, no. 11, p. 251,  
Dec. 1936.

37 Sheen agate - Central Oregon:  
Mineralogist, vol. V, no. 8, pp. 11-12,  
Aug. 1937.

---

Spreen, Christian August

39 A history of placer gold mining  
in Oregon, 1850-1870: Oregon Univ. Master's  
Thesis, 117 pp. (\*), bibliography, 3 maps,  
Eugene, June 1939.

---

Stafford, Howard S.

35 A regional geographic study of  
Guano Valley, a section of the basin  
range area of southeastern Oregon:  
Oregon Univ. Master's Thesis, 68 pp. (\*),  
photographs, Eugene, 1935.

---

Stafford, Orin Fletcher

39 Preliminary report upon Oregon  
saline lakes: Oregon Dept. Geology  
and Min. Industries Short Paper 1,  
4 pp. (\*), 1939.

---

Staley, W. W.

40 An abridged bibliography of the  
mineral industry of the State of Idaho:  
Idaho Bur. Mines and Geology Press Bull.  
19, 8 pp. (\*), map, Oct. 1940.

---

Staples, Lloyd William

See also Rogers, Austin Flint, 41  
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40a Guides for quicksilver pros-  
pecting: Mineralogist, vol. 8, pp. 43-  
44, 65-69, Feb. 1940.

40b Regional control of Oregon  
quicksilver deposits (abstract): Geol.  
Soc. America Bull., vol. 51, no. 12,  
pt. 2, pp. 2033-2034, Dec. 1940.

42a Strategic and critical minerals,  
a guide for Oregon prospectors: Oregon  
Dept. Geology and Min. Industries Short  
Paper 8, 27 pp. (\*), 1 fig. index map,  
1942.

42b Geology of Horse Heaven Mine  
(abstract): Geol. Soc. America Bull.,  
vol. 53, no. 12, pt. 2, p. 1822, Dec.  
1942.

---

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---

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---

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See also Stearns, Norah Dowell, 37

38 (and Crandall, Lynn, and Steward, Willard G.) Geology and ground-water resources of the Snake River plain in southeastern Idaho: U.S. Geol. Survey Water-Supply Paper 774, ix, 268 pp., 31 pls. incl. relief and geol. maps, 16 figs. incl. index maps, 1938.

45 Late geologic history of the Pacific basin: Am. Jour. Sci., vol. 243, no. 11, pp. 614-626, 2 figs., Nov. 1945.

---

Searns, Norah Dowell

37 (and Stearns, Harold Thornton, and Waring, Gerald Ashley) Thermal springs in the United States: U.S. Geol. Survey Water-Supply Paper 679-B, iv, 206 pp., 10 pls. incl. index maps, 7 figs. incl. index maps, 1937.

---

Stenzel, Henryk Bronislaw

43a Type invertebrate fossils of North America, Cephalopoda, Eocene, Paleocene: Texas Bur. Econ. Geology, 43 cards, numbered 1 to 28, illus., 1943?

43b Type invertebrate fossils of North America, Brachiopoda, Eocene: Texas Bur. Econ. Geology, 27 cards, numbered 122 to 148, (1-27), 1943?

43c (and Turner, Francis Earl) Type invertebrate fossils of North America, Gastropoda, Eocene, Oligocene, Paleocene: Texas Bur. Econ. Geology, 93 cards, numbered 29 to 121 (1-93), illus., 1943?

---

Stephen, W. M.

40 Pacific Northwest mineral occurrences: U.S. Dept. Interior, Bonneville Power Administration, Market Dev. sec., atlas of 41 maps, April 1940.

Stephenson, Edgar L.

43 Geophysical surveys of the Ochoco quicksilver district, Oregon, a preliminary report: U.S. Geol. Survey Bull. 940-C, pp. iv, 57-98 (\*), pls. 10-18, 1943.

45 Magnetometer surveys on black sands of the Oregon coast: U.S. Bur. Mines Rept. Inv. 3814, 18 pp. (\*), 1945.

---

Stern, A. George

See Ralston, Oliver C., 41, 42

---

Stevens, Rollin E.

44 Composition of some chromites of the western hemisphere: Am. Mineralogist, vol. 29, no. 1, pp. 1-34, Jan.-Feb., 1944.

---

Stevenson, Elmo N.

37 Nature rambles in the Wallowas: Metropolitan Press, Portland, n.d. (1937?)

---

Steward, Willard G.

See Stearns, Harold Thornton, 38

---

Stewart, Roscoe Emerson

45 Fossils will tell: Oregon Dept. Geology and Min. Industries Ore.-Bin, vol. 7, no. 12, pp. 73-79 (\*), Dec. 1945.

---

Stirton, Ruben Arthur

36 Succession of North American continental Pliocene mammalian faunas: Am. Jour. Sci., 5th ser., vol. 32, no. 189, pp. 161-206, Sept. 1936; (abstracts) Pan-Am. Geologist, vol. 64, no. 1, pp. 78-79, Aug. 1935; Geol. Soc. America Proc. 1935, pp. 401-402, 419, June 1936.

AUTHOR INDEX - Stirton to Swartley

Stirton, Ruben Arthur (cont.)

- 39 Significance of Tertiary mammalian faunas in Holarctic correlation with especial reference to the Pliocene in California: Jour. of Paleontology, vol. 13, no. 1, pp. 130-137, 2 figs., Jan. 1939.
- 40 Phylogeny of North American Equidae: California Univ. Dept. Geol. Sci. Bull., vol. 25, no. 4, pp. 163-197, 1 pl. chart, 52 figs., June 1940.
- 44 A rhinoceros tooth from the Clarno Eocene of Oregon: Jour. Paleontology, vol. 18, pp. 265-267, May 1944.

Stock, Chester

- 36 Sespe faunas (abstract): Geol. Soc. America Proc. 1935, p. 337, June 1936.
- 37a Evidence of changing climates during the later Eocene and Oligocene of California (abstract): Geol. Soc. America Proc. 1936, p. 300, June 1937.
- 37b Remarks on the correlation of the Sespe (Calif.) (abstract): Geol. Soc. America Proc. 1936, pp. 391-392, June 1937.

39 (and others) Studies on vertebrate paleontology in the Pacific Coast area: Carnegie Inst. Washington Yearbook 38, 1938-1939, pp. 310-311, 1939.

42 (and Hall, Eugene Raymond) Skull of a Pliocene badger from Oregon (abstract): Geol. Soc. America Bull., vol. 53, no. 12, pt. 2, p. 1837, Dec. 1942.

Stopps, Frederick George

37 The Esterly placer mine: Washington Univ. Bachelor of Science in mining engineering and geology thesis, i-ii, 27 pp. (\*), incl. illus., tbls., diagrs., Seattle, 1937.

Strayer, W. H.

- 39 (and Burch, Albert, and MacNaughton, E. B.) First biennial report of the State Department of Geology and Mineral Industries of the State of Oregon, 1937-1938, to his Excellency the Governor and the Forty-ninth Legislative Assembly: Oregon Dept. Geology and Min. Industries Bull. 13, iv, 42 pp. (\*), 2 figs., Jan. 1939.
- 41 (and Burch, Albert, and MacNaughton, E. B.) Second biennial report of the State Department of Geology and Mineral Industries of the State of Oregon, 1939-1940, to his Excellency the Governor and the Forty-first Legislative Assembly: Oregon Dept. Geology and Min. Industries Bull. 21, iv, 58 pp. (\*), 1941.
- 43 (and Burch, Albert, and MacNaughton, E. B.) Third biennial report of the State Department of geology and mineral industries of the State of Oregon, 1941-1942, to his Excellency the Governor and the Forty-second Legislative Assembly: Oregon Dept. Geology and Min. Industries Bull. 25, iii, 36 pp. (\*), 1943.
- 45 (and Williston, S. H., and Allen, Niel R.) Fourth biennial report of the State Department of geology and mineral industries of the State of Oregon, 1942-1944, to his Excellency the Governor and the Forty-third Legislative Assembly: Oregon Dept. Geology and Min. Industries Bull. 28, 29 pp. (\*), 1945.

Swartley, Arthur M.

38 Extracts from report on Rogue River turbidity; Appendix A; (In) Placer mining on the Rogue River, Oregon, in its relation to the fish and fishing in that stream: Oregon Dept. Geology and Min. Industries Bull. 10, pp. 26-27, 1938.

39 Geological features of west coast chromite deposits: Mining and Metallurgy, vol. 20, no. 385, p. 100, Jan. 1939.

AUTHOR INDEX - Swartzlow to Thiele

Swartzlow, Carl Robert

See also Smith, Warren DuPre, 36

34 The Lava Beds National Monument (Calif.): Compass, vol. 15, no. 1, pp. 17-25, 4 figs. incl. index map, Nov. 1934.

---

Taliaferro, Nicholas Lloyd

41 The Franciscan-Knoxville problem (abstracts): Oil Weekly, vol. 103, no. 7, p. 57, Oct. 1941; Am. Assoc. Petroleum Geologists Bull., vol. 25, no. 11, p. 2095, Nov. 1941.

42 Geologic history and correlation of the Jurassic of southwestern Oregon and California: Geol. Soc. America Bull., vol. 53, no. 1, pp. 71-112, 3 figs., index maps, Jan. 1942; (abstract) Geol. Soc. America Bull., vol. 52, no. 12, pt. 2, p. 1957, Dec. 1941.

43 Franciscan-Knoxville problem: Am. Assoc. Petroleum Geologists Bull. 27, pp. 109-219, Feb. 1943.

---

Talman, Charles Fitzhugh

38 Shrinking glaciers in the west: Am. Meteorology Soc. Bull., vol. 19, no. 5, p. 223, May 1938.

---

Taylor, D. N.

See Camp, Charles Lewis, 42

---

Thayer, Thomas Prence

36 Structure of the North Santiam River section of the Cascade Mountains in Oregon: Jour. Geology, vol. 44, no. 6, pp. 701-716, 3 figs. incl. geol. maps, Aug.-Sept. 1936; (abstracts) Pan-Am. Geologist, vol. 61, no. 4, p. 319, May 1934; Geol. Soc. America Proc. 1934, pp. 324-325, June 1935; Geol. Soc. Oregon Country News Letter, vol. 2, no. 11, p. 10 (\*), June 1936.

37 Petrology of later Tertiary and Quaternary rocks of the north-central Cascade Mountains in Oregon, with notes on similar rocks in western Nevada: Geol. Soc. America Bull., vol. 48, no. 11, pp. 1611-1651, 5 pls., 3 figs. incl. index and geol. maps, Nov. 1937; (abstract) Geol. Soc. America Proc. 1937, p. 126, June 1938.

38 History and glaciation of the North Santiam River, Oregon (abstract): Geol. Soc. America Proc. 1937, p. 255, June 1938.

39 Geology of the Salem Hills and the North Santiam River basin, Oregon: Oregon Dept. Geology and Min. Industries Bull. 15, 40 pp. (\*), 1 pl. geol. map, 8 figs. incl. index and geol. sketch maps, 1939.

40 Chromite deposits of Grant County, Oregon; a preliminary report: U.S. Geol. Survey Bull. 922-D, pp. iv, 75-113 (\*), 9 pls. incl. geol. maps, 7 figs., 1940; (abstract) Eng. and Min. Jour., vol. 141, no. 11, p. 52, Nov. 1940.

41 Chromite deposits of the Strawberry Range, Oregon (abstract): Washington Acad. Sci. Jour., vol. 31, no. 4, pp. 171-172, April 1941.

45 Preliminary chemical correlation of chromite with the containing rocks (abstract): Geol. Soc. America Bull., vol. 56, no. 12, pt. 2, p. 1207, Dec. 1945; (abstract) Jour. Geology, vol. 40, no. 8, p. 606, Dec. 1945.

---

Thiele, Walter

38 (and Kuhlman, Augustus Frederick) Official map publications; a historical sketch, and a bibliographical handbook of current maps and mapping services in the United States, Canada, Latin America, France, Great Britain, Germany, and certain other countries: Am. Library Assoc., xvi, 356 pp. (\*), Chicago, April 1938.

---

AUTHOR INDEX - Thom to Treasher

Thom, Emma Mertins

36-45 Bibliography of North American geology, 1933 and 1934: U.S. Geol. Survey Bull. 869, 389 pp., 1935 (1936); 1935 and 1936: Bull. 892, 504 pp., 1937 (Jan. 1938); 1929-1939: Bull. 937, pt. 1, pp. 1-11, 1-1063; pt. 2, pp. 1, 1065-1546, 1944; 1940 and 1941: Bull. 938, pp. 1-11, 1-479, 1942 (1943); 1942 and 1943: Bull. 949, pp. 1-viii, 1-460, 1944 (1945).

---

Thomas, Charles Edwin

37 (and Graf, Samuel Herman) An investigation of some Oregon sands with a statistical study of the predictive values of tests: Oregon State College Eng. Exper. Sta. Bull. 8, 62 pp., 20 figs., Corvallis, 1937.

---

Thompson, Marcus Luther

42 (and Wheeler, Harry E.) Permian fusulinids from British Columbia, Washington, and Oregon: Jour. Paleontology, vol. 16, no. 6, pp. 700-711, pls. 105-109, 2 text figs., Nov. 1942; (abstract) Geol. Soc. America Bull., vol. 52, no. 12, pt. 2, p. 1984, Dec. 1941.

---

Thomson, John Prentiss

39 An occurrence of beach-type dunes south of Umatilla, Oregon: Geol. Soc. Oregon Country News Letter, vol. 5, no. 4, pp. 35-36 (\*), Feb. 1939.

---

Townley, Sidney Dean

39 (and Allen, Maxwell Wilford) Descriptive catalogue of earthquakes of the Pacific Coast of the United States, 1769 to 1928: Seismol. Soc. America Bull., vol. 29, no. 1, pp. 1-297, Jan. 1939.

---

Trager, Earl Adam

38 Geology in the National Parks (abstract): Tulsa Geol. Soc. Digest, pp. 11-12, 1 chart geol. formations exposed in the parks, 1938.

Trask, Parker Davies

39 (Editor) Recent marine sediments, a symposium: 736 pp., illus., Am. Assoc. Petroleum Geologists, Tulsa, Oklahoma, Sept. 1939.

---

Travis, H. F.

37 Cannon Beach section of Saddle Mountain trip, June 19, 1937: Geol. Soc. Oregon Country News Letter, vol. 3, no. 15, pp. 167-168 (\*), Aug. 1937.

---

Treasher, Raymond Clarence

See also Libbey, Fay Wilmott, 42  
Wilson, Hewitt, 38

35 Impressions of the physiography and geology of the southern Cascades, Washington: Geol. Soc. Oregon Country News Letter, vol. 2, no. 15, pp. 12-15 (\*), Aug. 1935.

36 (and Hodge, Edwin Thomas) Bibliography of the geology and mineral resources of Oregon, with digests and index to July 1, 1936: 224 pp. (\*), Oregon State Planning Board, Sept. 1936.

37a (and Layfield, Robert A.) Oregon country geology; placers of the upper Applegate (River), Jackson County: Geol. Soc. Oregon Country News Letter, vol. 3, no. 1, pp. 3-4 (\*), Jan. 1937.

37b (Review of) Mount Mazama (Oreg.), explosion versus collapse, by Warren DuPre Smith and Carl Robert Swartzlow, 1936: Geol. Soc. Oregon Country News Letter, vol. 3, no. 9, pp. 98-100 (\*), May 1937.

AUTHOR INDEX - Treasher

- Treasher, Raymond Clarence (cont.)
- 37c Satsop gravels and the Snipes conglomerate: Geol. Soc. Oregon Country News Letter, vol. 3, no. 20, pp. 216-220 (\*), Oct. 1937.
- 38a The scablands of the Columbia Plateau, a review of (Origin of the Cheney-Palouse scabland tract, Washington, by Richard Foster Flint, 1938): Geol. Soc. Oregon Country News Letter, vol. 4, no. 15, pp. 175-176 (\*), Aug. 1938.
- 38b A Pleistocene damming of the Lower Columbia River (abstract): Geol. Soc. Oregon Country News Letter, vol. 4, no. 24, p. 271 (\*), Dec. 1938.
- 39a The Portland earthquake of November 12, 1939: Geol. Soc. Oregon Country News Letter, vol. 5, no. 22, pp. 204-207 (\*), Nov. 1939.
- 39b (Compiler) Earthquakes in Oregon, 1846-1938: Geol. Soc. Oregon Country News Letter, vol. 5, no. 23, pp. 214-221 (\*); no. 24, pp. 224-226 (\*), Dec. 1939.
- 39c Stream tin in Oregon: Geol. Soc. Oregon Country News Letter, vol. 5, no. 9, p. 82 (\*), May 1939.
- 40a (and others) Field identification of minerals for Oregon prospectors and collectors: Oregon Dept. Geology and Min. Industries Bull. 16, 128 pp. (\*), 17 figs., 1940.
- 40b Distribution of historic earthquakes in the Pacific Northwest (abstract): Geol. Soc. America Bull., vol. 51, no. 12, pt. 2, p. 2034, Dec. 1940.
- 40c Geology of the Portland (Oregon) area (abstract): Geol. Soc. America Bull., vol. 51, no. 12, pt. 2, p. 2034, Dec. 1940.
- 41a Pebbles with concave facets: Pan-Am. Geologist, vol. 76, no. 3, pp. 181-184, 2 pls., Oct. 1941.
- 41b Gold dredging in southwestern Oregon: Eng. and Min. Jour., vol. 142, no. 3, pp. 39-41, March 1941.
- 41c (Review of) Hood River conglomerate in Washington, by Charles R. Warren: Geol. Soc. Oregon Country News Letter, vol. 7, no. 19, p. 176 (\*), Oct. 1941.
- 41d Oregon's iron industry: Geol. Soc. Oregon Country News Letter, vol. 7, no. 20, pp. 184-186 (\*), Oct. 1941.
- 42a Geologic history of the Portland (Oregon) area: Oregon Dept. Geology and Min. Industries Short Paper 7, 17 pp. (\*), map and sects., 1942.
- 42b Geologic map of the Portland area, Oregon (with chart distinguishing formation units on back): Oregon Dept. Geology and Min. Industries Map Series, scale 1:96,000, 1942.
- 42c Geologic map of Josephine County (scale 1 in. to 4 miles) (In) Oregon Metal Mines Handbook, Josephine County: Oregon Dept. Geology and Min. Industries Bull. 14-C, vol. 2, sec. 1, 229 pp. (\*), 1 pl., index and geologic maps, 1942.
- 43a Reconnaissance geologic survey in Curry County along coast highway from Gold Beach to California State line: Geol. Soc. Oregon Country News Letter, vol. 9, no. 13, pp. 80-82 (\*), 1 pl., July 1943.
- 43b Geologic map of Jackson County (scale 1 in. to 4 miles) (In) Oregon Metal Mines Handbook, Jackson County: Oregon Dept. Geology and Min. Industries Bull. 14-C, vol. 2, sec. 2, 208 pp. (\*), 1 pl., index and geologic maps, 1943.
- 45a Geologic map of southwestern Oregon: Geol. Soc. Oregon Country News Letter, vol. 11, no. 15, p. 98 (\*), Sept. 1945.
- 45b Limestone deposits of southwestern Oregon: Geol. Soc. Oregon Country News Letter, vol. 11, no. 15, p. 98 (\*), Sept. 1945.

AUTHOR INDEX - Trindle to U.S. Army, 29th Engineers

Trindle, William Harrison

37 Geology and mining of the Jordan Valley, southeastern Oregon: Washington Univ. Bachelor of Science in Mining Engineering and Geology, i-iii, 58 pp. (\*), incl. illus., fold-maps, tabs., folded diagrs., Seattle, 1937.

Turner, Francis Earl

See Stenzel, Henryk Bronislaw, 43c  
29 Discocyclina in Oregon: Micro-paleontology Bull., vol. 1, no. 12, art. 48, 1929.

33 Stratigraphy and molluscan faunas of the Eocene of western Oregon: California Univ., Doctoral dissertation (\*), Berkeley, 1933.

38 Stratigraphy and Mollusca of the Eocene of western Oregon: Geol. Soc. America Spec. Papers 10, ix, 130 pp., 22 pls., 7 figs. incl. index map, June 1938.

Twenhofel, W. H.

43 Origin of the black sands of the coast of southwest Oregon: Dept. Geology and Min. Industries Bull. 24, 25 pp., index map, 7 figs., 1943.

45 Black sands of the Oregon coast (abstract): Geogr. Rev., vol. 35, p. 145, Jan. 1945.

Tyler, Paul M.

31 (and Santmyers, R. M.) Platinum: U.S. Bur. Mines Inf. Circ. 6389, pp. 24, 28 (\*), Feb. 1931.

Ulrich, Franklin P.

37 Analysis of the earthquake problem in Western United States: Northwest Sci., vol. 11, no. 4, pp. 89-92, Nov. 1937.

U.S. Army, 29th Engineers

See also U.S. Geological Survey  
Hodge, Edwin Thomas, 38ad  
Miller, R. M., 36, 37, 38a

Topography, quadrangle sheets:

Area	Contour Interval	Date latest Printing
Scale 1/62,500 (*Revision of USGS topog.)		
Albany	25	1944
Alsea	50	1942
Astoria	20	1939
Blachly	50	1942
Boring*	25	1944
Bridal Veil*	100	1942
Cape Falcon	50	1940
Cathlamet	20	1941
Clatskanie	25	1942
Corvallis	50	1942
Dallas	50	1942
Elmira	50	1942
Enright	100	1941
Eugene*	5 & 10	1940
Fairdale	100	1942
Gales Creek	25	1943
Ginger Peak	100	1942
Halsey*	10 & 25	1941
Heceta Head*	50	1944
Hillsboro*	25	1943
Kalama	20	1943
Keasey	100	1943
Lebanon*	25	1944
Marys Peak	50	1942
McMinnville*	25	1943
Molalla	25	1943
Monroe	50	1942
Mount Angel*	25	1943
Nehalem	100	1943
Nestucca Bay	100	1942
Oregon City*	25	1945
Portland*	25	1940
Reedsport*	50	1942
Saddle Mountain	100	1943
St. Helens	25	1943
Salem*	25	1940
Sheridan	100	1942
Siltcoos Lake*	50	1942
Spirit Mountain	100	1942
Stayton*	25	1944
Svensen	20	1940
Tillamook	100	1942
Timber	100	1941

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U.S. Army, 29th Engineers (cont.)

<u>Area</u>	<u>Contour Interval</u>	<u>Date latest Printing</u>
Tualatin*	25	1943
Valsetz	50	1942
Vernonia	25	1943
Waldport*	50	1942
Yamhill	100	1942

U. S. Bonneville Administration

See also Hodge, Edwin Thomas, 44

39 Pacific Northwest mineral occurrences:  
The Bonneville project, atlas of 25 maps,  
Aug. 1939.

40 Pacific Northwest mineral occurrences:  
The Bonneville project, market development  
section, 1939-1940.

43 Western Oregon industrial surveys:  
The Bonneville project, market development  
section, 17 sheets, October 1943.

U.S. Bureau of Chemistry and Soils

38 Soil surveys of Oregon: 4 p., 1938.  
(List of soil survey reports)

U.S. Bureau of Mines

43a Summary of state laws pertaining  
to explosives: U.S. Bur. Mines Inf.  
Circ. 7255, (\*), (Oregon, pp. 65-70), 1943.

43b Molalla clay, Clackamas County,  
Oregon: U.S. Bur. Mines War Minerals  
Rept. 7, (aluminum) 7 pp. (\*), 1 tbl.,  
1942; Rept. 8 (Supplement to 7) 26 pp. (\*),  
5 figs. and maps, 1943.

43c Bretz mine, Malheur County, Oregon;  
Cordero mine, Humboldt County, Nevada:  
U.S. Bur. Mines War Minerals Rept. 46  
(Mercury) 9 pp. (\*), 1943.

43d Black Butte mine, Lane County,  
Oregon: U.S. Bur. Mines War Minerals  
Rept. 48, (Mercury) 16 pp. (\*), 1943.

43e John Day district, Grant County,  
Oregon: U.S. Bur. Mines War Minerals  
Rept. 49, (Chromium) 30 pp. (\*),  
10 figs., 3 maps, 1943.

43f Sourdough mine, Curry County,  
Oregon: U.S. Bur. Mines War Minerals  
Rept. 69, (Chromium) 8 pp. (\*), 1 fig.,  
1943.

43g Possibilities of coal production  
in the Coos Bay field, Oregon: U.S.  
Bur. Mines War Minerals Rept. 163,  
24 pp. (\*), 6 figs., 1 tbl., 1943.

43h Bretz mercury mine dumps, Malheur  
County, Oregon: U.S. Bur. Mines War  
Minerals Rept. 67, (Mercury) 4 pp., 1943.

43i Nonpareil mercury mine, Douglas  
County, Oregon: U.S. Bur. Mines War  
Minerals Rept. 112, (Mercury) 5 pp. (\*),  
1943.

43j Bretz mine, Malheur County, Oregon;  
Cordero mine, Humboldt County, Nevada:  
U.S. Bur. Mines War Minerals Rept. 146,  
(mercury) 6 pp. (\*), 1943.

43k Pacific Syndicate mine, Jackson  
County, Oregon: U.S. Bur. Mines War  
Minerals Rept. 166, (Mercury) 5 pp. (\*),  
1943.

43l Hobart Butte, Lane County, Oregon:  
U.S. Bur. Mines War Minerals Rept. 175,  
(Clay) 16 pp. (\*), 2 figs., 1943.

43m Proposed exploration, Coos Bay coal  
field, Coos County, Oregon: U.S. Bur.  
Mines War Minerals Rept. 232, 6 pp. (\*),  
1943.

43n Sourdough chrome property, Curry  
County, Oregon: U.S. Bur. Mines War  
Minerals Rept. 279, (Chromium) 7 pp.,  
1 fig., 1943.

AUTHOR INDEX - U.S. Bureau of Mines to U.S. Geological Survey

U.S. Bureau of Mines (cont.)

430 War Eagle mine, Jackson County, Oregon: U.S. Bur. Mines War Minerals Rept. 177, (Mercury) 11 pp. (\*), 2 figs., 1943.

44a Concentration of oxide manganese ore from Sheep Mountain property, Durkee district, Oregon: U.S. Bur. Mines War Minerals Rept. 167, 9 pp. (\*), 6 tbls., 1944.

44b Scappoose mine, Columbia County, Oregon: U.S. Bur. Mines War Minerals Rept. 186, (Iron) 24 pp. (\*), 9 tbls., 1944.

44c Silica sand deposits in the Eugene area, Lane County, Oregon: U.S. Bur. Mines War Minerals Rept. 199, 21 pp. (\*), 9 tbls., 1944.

44d John Day chromite deposits, Grant County, Oregon: U.S. Bur. Mines War Minerals Rept. 204, (Chromium) 20 pp. (\*), 2 figs., 1944.

44e Alumina from clay, ammonium sulfate process, laboratory and pilot plant baking tests: U.S. Bur. Mines War Minerals Rept. 207, 22 pp., 1 fig., 10 tbls., 1944.

45a Horse Sign Butte iron deposits, Curry County, Oregon: U.S. Bur. Mines War Minerals Rept. 412, 9 pp. (\*), 1 fig., 1945.

45b Nonpareil quicksilver deposit, Douglas County, Oregon: U.S. Bur. Mines War Minerals Rept. 459, (Mercury) pp. 1-10 (\*), 1945.

U.S. Coast and Geodetic Survey

44 Geographic names in coastal areas of California, Oregon, and Washington: compiled by personnel of Works Progress Administration, Geographical Names Board, Interior Department, 1944.

U.S. Department of Agriculture

See U.S. Bureau of Chemistry and Soils  
U.S. Forest Service

U.S. Department of Commerce

See U.S. Coast and Geodetic Survey

U.S. Department of Interior

See U.S. Bonneville Adminstration  
U.S. Bureau of Mines  
U.S. Geological Survey  
U.S. National Park Service

U.S. Forest Service

45 Preliminary aerial photographic index for Oregon: U.S. Forest Service map, 1 sheet, scale 1/2,000,000, 2pp. index (\*), 1945.

U.S. Geological Survey

a Topography quadrangle sheets:

<u>Area</u>	<u>Contour Interval</u>	<u>Date latest printing</u>
<u>Scale 1/62,500</u>		
Aldrich Mtn.	50	1943
Bandon	50	1944
Camas	25	1942
Cape Foulweather	50	1944
Coos Bay	50	1945
Coquille	50	1945
Crow	50	1945
Empire	50	1944
Euchre Mtn.	50	1943
Goodwin Peak	50	1943
John Day	50	1943
Mapleton	50	1945
Mount Vernon	50	1943
Roman Nose Mtn.	100	1945
Tidewater	50	1945
Toledo	100	1946
Yaquina	50	1942

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U.S. Geological Survey (cont.)

<u>Area</u>	<u>Contour Interval</u>	<u>Date latest Printing</u>
<u>Scale 1/125,000</u>		
Arlington	50	1941
Bend	50	1940
Blalock Island	50	1944
Chemult	50	1941
Coos Bay	100	1937
Dufur	100	1945
Estacada	100	1938
Hood River	100	1940
Kerby	100	1942
Lowell	100	1942
Maiden Peak	100	1944
McKenzie Bridge	100	1940
Medford	100	1945
Mill City	100	1941
Mount Hood	100	1944
Mount Hood & vicinity	100	1939
Mount Jefferson	100	1938
Pine	100	1941
Port Orford	100	1944
Riddle	100	1942
Roseburg	100	1942
Sumpter	100	1939
The Dalles	50	1941
Three Sisters	100	1941
Waldo Lake	100	1944

Topography, river survey sheets:

Applegate River, 4 sheets	1940
Chewaucan River, 3 sheets	1938
Cow Creek, 1 sheet	1939
Deep Creek and Camas Creek, 4 sheets	1939
Evans Creek, 2 sheets	1938
Grande Ronde River, 7 sheets	1937
Grave Creek, 1 sheet	1938
Hood River, 4 sheets	1939
Jump-off-Joe Creek, 1 sheet	1937
Little Butte Creek, 3 sheets	1938
Lookout Point, 4 sheets	1938
Luckiamute River, 1 sheet	1938
Nehalem River, 7 sheets	1938
North Santiam River, 2 sheets	1944
South Santiam River, 5 sheets	1938
South Umpqua River, 3 sheets	1938
South Yamhill River, 2 sheets	1938
Umatilla River, 3 sheets	1938
Willamina Creek, 1 sheet	1937

b Surface water supply of the United States: U.S. Geol. Survey Water-Supply Papers, The Great Basin, nos. 750, 765, 790, 810, 830, 860, 880, 900, 930, 960.

c Surface water supply of the United States: U.S. Geol. Survey Water-Supply Papers, Pacific Slope basins in Oregon and lower Columbia River basin, nos. 754, 769, 794, 814, 834, 864, 884, 904, 934, 964, 1014.

d Water levels and artesian pressure in observation wells in the United States, Northwestern States: U.S. Geol. Survey Water-Supply Papers, nos. 817, 886, 910, 940, 941, 944, 948, 986, 990.

U.S. National Park Service

37-40 Crater Lake National Park, Oregon: National Park Service, 1937, 1938, 1939, 1940 (Includes Oregon Caves National Monument, Lava Beds National Monument).

39-41 Oregon Caves National Monument: 3 pp. illus., map, 1939, 1941.

U.S. Post Office Department

Post route map of Oregon: Scale 10 m. -- 1 in., 1937.

Vance, A. D.

36 With Dr. Chaney in Eastern Oregon: Geol. Soc. Oregon Country News Letter, vol. 2, no. 16, pp. 2-4 (\*), Aug. 1936.

38 Amateur geologist at Coos Bay: Geol. Soc. Oregon Country News Letter, vol. 4, no. 20, pp. 224-226 (\*), Oct. 1938.

AUTHOR INDEX - VanderHoof to Ward

VanderHoof, Vertress Lawrence

See Camp, Charles Lewis, 40a

37 Analysis of the literature of vertebrate paleontology for the period 1928-1933 (abstract): Geol. Soc. America Proc. 1936, p. 388, June 1937.

Van Meter, Clyde

40 Heating with hot water wells (Klamath Falls): Driller, vol. 14, no. 3, pp. 4-7, March 1940.

Van Orstrand, Charles Edwin

38 Temperatures in the lava beds of east central and south central Oregon: Am. Jour. Sci., 5th ser., vol. 35, no. 205, pp. 22-46, 14 figs. incl. index map, Jan. 1938; (abstract) Washington Acad. Sci. Jour., vol. 27, no. 8, pp. 357-358, Aug. 1937.

Verhoogen, Jean

37a A monoclinic "hypersthene" from the Cascade lavas: Am. Jour. Sci., 5th ser., vol. 33, no. 193, pp. 63-69, 1 fig., Jan. 1937.

37b Mount St. Helens, a recent Cascade volcano: California Univ., Dept. Geol. Sci., Bull., vol. 24, no. 9, pp. 263-302, 3 pls., 13 figs. incl. index and geol. sketch maps, 1937; (abstract) Geol. Soc. America Proc. 1936, p. 302, June 1937.

Vokes, Harold Ernest

See Clark, Bruce Lawrence, 36a

36 Middle Eocene molluscan faunas of the Vallecitos and Coalinga areas (abstract): Geol. Soc. America Proc. 1935, p. 411, June 1936.

37 The gastropod genus Harpa in the Eocene of the western United States: Jour. Paleontology, vol. 11, no. 1, pp. 10-12, 2 pls., Jan. 1937.

Waesche, Hugh H.

37a Volcanos in the National Parks: Volcano Letter 450, pp. 1-4, 3 figs., Aug. 1937.

37b Crater Lake National Park: Volcano Letter 451, pp. 1-4, 4 figs. incl. map with note by Thomas Augustus Jaggar, Jr., Origin of Crater Lake Cup, pp. 4-6, Sept. 1937.

Wagner, Norman S.

44 Antimony in Oregon: Oregon Dept. Geology and Min. Industries Short Paper 13, 20 pp. (\*), 4 pls., 1944.

Wallace, Robert Earl

42 Middle Miocene vertebrate fauna from Beatty Buttes, Oregon (abstract): Geol. Soc. America Bull., vol. 53, no. 12, pt. 2, p. 1839, Dec. 1942.

Walther, Paul

36 Fluorescent minerals from many localities: Mineralogist, vol. 4, no. 1, pp. 5-6, 10, Jan. 1936.

Ward, Henry Baldwin

38 Placer mining on the Rogue River, Oregon, in its relation to the fish and fishing in that stream: Oregon Dept. Geology and Min. Industries Bull. 10, 31 pp., 6 pls., 1938.

AUTHOR INDEX - Waring to Weaver

Waring, Gerald Ashley

See also Stearns, Norah Dowell, 37

36 Two thermal springs in Idaho and Oregon (abstract): Geol. Soc. America Proc. 1935, pp. 115-116, June 1936.

Warren, Charles R.

37 (Review of) State of Washington, preliminary geologic map, etc., by H. E. Culver: Am. Jour. Sci., 5th ser., vol. 34, no. 201, p. 246, 1937.

41a The Hood River conglomerate in Washington: Am. Jour. Sci., 5th ser., vol. 239, no. 2, pp. 106-127, 1 pl., 2 figs. index and topog. maps, Feb. 1941.

41b Course of Columbia River in southern central Washington: Am. Jour. Sci., 5th ser., vol. 239, no. 3, pp. 209-232, 1 pl., 2 figs. incl. index and topog. maps, March 1941.

Warren, Walter Cyrus

36 Tertiaries of the Washington Cascades: Pan-Am. Geologist, vol. 65, no. 4, pp. 241-247, May 1936; (abstract) no. 1, p. 77, Feb. 1936.

41 Relation of the Yakima basalt to the Keechelus andesitic series (Wash.): Jour. Geology, vol. 49, no. 8, pp. 795-814, 6 figs. incl. index, geol., isopach maps, Nov.-Dec. 1941; (abstract) Geol. Soc. America Bull., Vol. 51, no. 12, pt. 2, pp. 2034-2035, Dec. 1940.

45 (and Norbisrath, Hans, and Grivetti, R. M.) Geology of northwestern Oregon, west of the Willamette River and north of latitude 45°15': U.S. Geol. Survey Oil and Gas Inv., Prelim. Map 42, 1 sheet, 44 by 64 inches, map scale 1 inch : 2.3 miles, 2 colors, 2 structure sections, 6 stratigraphic sections, Dec. 1945.

Washington State Planning Council

40 Cascade Mountains study: Washington State Planning Council, 56 pp., illus., Olympia, May 1940.

Watson, Aaron Clement

36 Transverse folding, Cascade Range (abstract): Geol. Soc. America Proc. 1935, pp. 116-117, June 1936.

39 Resurrected erosion surface in central Washington: Geol. Soc. America Bull., vol. 50, no. 4, pp. 638-659, April 1939; (abstract) Proc. 1936, pp. 319-320, June 1937.

41 Collapsed vesicles, alteration banding, and platy jointing of basalt (abstract): Geol. Soc. America Bull., vol. 52, no. 12, pt. 2, pp. 1958-1959, Dec. 1941.

42 (and Brown, Randall Emory, et al) Quicksilver deposits of the Horse Heaven mining district, Oregon: U.S. Geol. Survey Strategic Minerals Inv., unpub. ms., 67 pp. (\*), 18 pls., 1 fig., 1942.

Watson, Fletcher G., Jr.

39 The Goose Lake (Calif.) meteorite: Telescope, vol. 6, no. 5, p. 119, 1 fig., Sept.-Oct. 1939.

Weaver, Charles Edwin

37a Tertiary stratigraphy of western Washington and northwestern Oregon: Washington Univ. Pub. in Geology, vol. 4, 266 pp., 15 pls. incl. geol., index, and paleogeog. maps, 1937; (abstracts) Pan-Am. Geologist, vol. 64, no. 1, pp. 72-73, Aug. 1935; vol. 66, no. 2, pp. 158-159, Sept. 1936; Geol. Soc. Oregon Country News Letter, vol. 2, no. 12, p. 6 (\*), June 1936; Geol. Soc. America Proc. 1935, pp. 117-118, 349, June 1936; 1936, pp. 317-318, June 1937.

AUTHOR INDEX - Weaver to Wells

Weaver, Charles Edwin (cont.)

37b Stratigraphy of type section of Cowlitz formation along Olequa Creek, Wash. (abstract): Geol. Soc. America Proc. 1936, p. 298, June 1937.

37c Stratigraphy of the Blakeley formation in the vicinity of Bremerton Inlet, Washington (abstract): Geol. Soc. America Proc. 1936, pp. 327-328, June 1937.

39 Metchosin volcanic rocks in Oregon and Washington (abstract): Geol. Soc. America Bull., vol. 50, no. 12, pt. 2, p. 1961, Dec. 1939.

40 Geological history of the Tertiary in the Pacific Northwest (abstract): Geol. Soc. America Bull., vol. 51, no. 12, pt. 2, pp. 2035-2036, Dec. 1940.

42a Paleontology of the marine Tertiary formations of Oregon and Washington: Washington Univ. Pub. in Geology, vol. 5, pt. I, Coelenterata, Vermes, Echinodermata, Molluscoidea, Mollusca (Pelecypoda, Scaphopoda) pp. 1-247; pt. II, Mollusca (Gastropoda, Cephalopoda) Arthropoda, pp. 275-562; pt. III, bibliography, faunal localities, correlation chart, faunal tabs., pls., new names, index, pp. 563-790, Dec. 1942.

42b Tertiary formations at Coos Bay, Oregon: (abstract) Geol. Soc. America Bull., vol. 53, no. 12, pt. 2, p. 1824, Dec. 1942.

44 Correlations of the marine Cenozoic formations of western North America: Geol. Soc. America Bull., vol. 55, no. 5, pp. 569-598, 1 pl., May 1944.

45a Stratigraphy and paleontology of the Tertiary formations at Coos Bay, Oregon: Washington Univ. Pub. in Geology, vol. 6, no. 2, pp. 31-62, June 1945.

45b Geology of Oregon and Washington and its relation to the occurrence of oil and gas: Am. Assoc. Petroleum Geologists Bull., vol. 29, no. 10, pp. 1377-1415, 2 figs., 6 tabs., Oct. 1945.

Welles, S. P.

See Camp, Charles Lewis, 42

Wells, Francis Gerritt

See also Griggs, Allan B., 43

39 (and others) Preliminary geologic map of the Medford Quadrangle, Oregon: Oregon Dept. Geology and Min. Industries Map 2, scale 1:96,000, text on back, 1939.

40a (and others) Preliminary geologic map of the Grants Pass quadrangle, Oregon: Oregon Dept. Geology and Min. Industries Map 5, scale 1:96,000, text on back, 1940.

40b (and others) Chromite deposits in the Sourdough area, Curry County, and the Briggs Creek area, Josephine County, Oregon: U.S. Geol. Survey Bull. 922-P, pp. iv, 461-496 (\*), 2 pls. geol. maps, 4 figs. incl. index and sketch maps, 1940.

41a (Review of) Geological investigations of the chromite deposits of California, by John Eliot Allen, 1941: Econ. Geology, vol. 36, no. 6, pp. 666-667, Sept.-Oct. 1941.

41b (and Hotz, Preston E.) Mesozoic volcanic series in southwest Oregon (abstract): Geol. Soc. America Bull., vol. 52, no. 12, pt. 2, pp. 1937-1938, Dec. 1941.

Wells, Roger Clark

23 Sodium sulphate: its sources and uses: U.S. Geol. Survey Bull. 717, pp. 26-27, 1923. (Harney Lake, Sucker Creek)

37 Analyses of rocks and minerals from the laboratory of the U.S. Geological Survey, 1914-1936: U.S. Geol. Survey Bull. 878, 134 pp., 1937.

AUTHOR INDEX - Wetmore to Willard

Wetmore, Alexander

40 A checklist of the fossil birds  
of North America: Smithsonian Misc. Coll.,  
vol. 99, no. 4, 81 pp., June 1940.

Wharton, Jack R. (Joseph)

36 Fossil fern locality: Mineralogist,  
vol. 4, no. 8, p. 16, Aug. 1936.

37 Teredo wood (from Oregon),  
petrified: Mineralogist, vol. 5, no. 4,  
p. 16, 1 fig., Apr. 1937.

Wheeler, Harry Eugene

See also Thompson, Marcus Luther, 42

39 Age of the Dekkas volcanic rocks  
of the Klamath Mountains (abstract):  
Geol. Soc. America Bull., vol. 50, no. 12,  
pt. 2, p. 1962, Dec. 1939.

40 Permian volcanism in western  
North America: 6th Pacific Sci. Cong.  
Proc., pp. 369-376, 2 figs. incl. index  
map, 1940.

White, John Galbreath, Jr.

38 Almeda mine: Washington Univ.,  
Bachelor of science in mining engineering  
and geology, i-viii, 154 pp. (\*), incl.  
illus., plates, tabs., forms (folded),  
plans (part folded), Seattle, 1938.

Whitfield, J. E.

99 Analyses of natural borates and  
borosilicates: U.S. Geol. Survey Bull 55,  
pp. 56-59 (Curry County priceite) 1899.

10 Analyses of borates: U.S. Geol.  
Survey Bull. 419, p. 300 (Curry County  
priceite) 1910.

Wildensteiner, K. D.

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Wilder, Beverly, Jr.

See Durham, John Wyatt, 42c

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36 Spherulites in the Clarno formation  
acid lavas (abstracts): Geol. Soc.  
America Proc. 1934, p. 330, June 1935;  
Geol. Soc. Oregon Country News Letter,  
vol. 2, no. 11, p. 10 (\*), June 1936.

39 Tertiary stratigraphy of the  
Dayville quadrangle (abstract): Geol.  
Soc. America Bull., vol. 50, no. 12,  
pt. 2, p. 1962, Dec. 1939.

40a Reconnaissance geologic map of  
the Round Mountain quadrangle, Oregon:  
Oregon Dept. Geology and Min. Industries  
Map 3, scale 1:96,000, text on back, 1940.

40b Advance report on some quicksilver  
prospects in the Butte Falls quadrangle,  
Oregon (Covers economic aspects of work  
done by Oregon State Geological Survey  
during summer field season of 1940):  
Oregon Dept. Geology and Min. Industries  
Short Paper 3, 9 pp. (\*), 1940.

41 (and others) Reconnaissance geologic  
map of the Butte Falls quadrangle, Oregon:  
Oregon Dept. Geology and Min. Industries  
Map 4, scale 1:96,000, 1941.

45 (and Lowry, W. D., and Baldwin,  
E. M.) Geologic map of the St. Helens  
quadrangle, Oregon-Washington: Oregon  
Dept. Geology and Min. Industries Map 9,  
scale 1:62,500, 1945.

Willard, Daniel Everett

42 Adventures in scenery, a popular  
reader of California geology: x, 438 pp.,  
Jacques Cattell Press, Lancaster, Pa., 1942.

AUTHOR INDEX - Williams to Wilson

Williams, Howel

See also Cressman, Luther Sheeleigh, 40b  
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38a Origin of Crater Lake (abstract):  
Geol. Soc. America Proc. 1937, p. 120,  
June 1938.

38b The caldera problem (abstract):  
Geol. Soc. America Proc. 1937, p. 257,  
June 1938.

39 Age of Crater Lake, Oregon (abstract):  
Geol. Soc. America Bull., vol. 50, no. 12,  
pt. 2, p. 1962, Dec. 1939.

40 The growth of Mount Mazama and  
the formation of Crater Lake (abstract):  
Sci., n.s., vol. 91, no. 2367, p. 456,  
May 1940.

41a Crater Lake, the story of its  
origin: xii, 97 pp., 2 l., illus.,  
Univ. California Press, Berkeley, 1941.

41b Calderas and their origin:  
California Univ., Dept. Geol. Sci. Bull.,  
vol. 25, no. 6, pp. 239-346, 37 figs.  
incl. geol. sketch maps, April 1941.

42 The geology of Crater Lake National  
Park, Oregon, with a reconnaissance of  
the Cascade Range southward to Mount Shasta:  
Carnegie Inst. Washington Pub. 540, 162 pp.,  
31 pls., 33 figs. incl. index, geol.,  
paleogeog. maps, 1942.

44 Volcanoes of the Three Sisters  
region, Oregon Cascades: California  
Univ., Dept. Geol. Sci. Bull., vol. 27,  
no. 3, pp. 37-84, pl. 4-12, 4 figs. in  
text, 1 map, 1944; (abstract) Geol. Soc.  
America Bull., vol. 53, no. 12, pt. 2,  
p. 1825, Dec. 1942.

Williams, Ira A.

36 Cripple Creek knoll (Clackamas  
River): Geol. Soc. Oregon Country News  
Letter, vol. 2, pp. 6-8 (\*), Oct. 1936.

Williston, S. H.

See also Strayer, W. H., 45

42a Treasury department vs.  
production of critical minerals:  
Oregon Dept. Geology and Min. Industries  
Ore.-Bin, vol. 4, no. 8, pp. 73-76. (\*),  
Aug. 1942.

42b Taxation by decree: Oregon  
Dept. Geology and Min. Industries  
Ore.-Bin, vol. 4, no. 9, pp. 80-81 (\*),  
Sept. 1942.

Wilmarth, Mary Grace

38 Lexicon of geologic names of the  
United States (including Alaska) (also  
includes the names and ages, but not the  
definitions, of the named geologic units  
of Canada, Mexico, the West Indies,  
Central America, and Hawaii): U.S. Geol.  
Survey Bull. 896, pt. 1, A-L, pp. 1-1244,  
pt. 2, M-Z, pp. 1245-2396, 1938.

Wilson, Ben Hur

See Dake, Henry Carl, 38b

Wilson, Hewitt

33 Iron oxide mineral pigments of  
the United States: U.S. Bur. Mines  
Bull. 370, pp. 143-144 (limonite near  
Baker, Warm Springs, and southwestern  
Oregon), 1933.

34 (and Goodspeed, George Edward)  
Kaolin and china clay in the Pacific  
Northwest: Washington Univ. Eng. Exper.  
Sta. Bull. 76, 188 pp., 59 figs. incl.  
geol. map, Seattle, Sept. 1934.

36 (and Zvanut, Frank Joseph)  
Properties of quartz sands washed from  
kaolins of the Pacific Northwest:  
Washington Univ. Eng. Exper. Sta.  
Bull. 88, 42 pp., 14 figs., Seattle,  
Jan. 1936.

AUTHOR INDEX - Wilson to Work

Wilson, Hewitt (cont.)

38 (and Treasher, Raymond Clarence) Preliminary report of some of the refractory clays of western Oregon: Oregon Dept. Geology and Min. Industries Bull. 6, 93 pp. (\*), 48 figs. incl. tbls. and index maps, 1938.

42 (and Skinner, Kenneth Guy, and Couch, Albert Harris) Silica sands of Washington: Washington Univ. Eng. Exper. Sta. Bull. 108, 76 pp., 6 figs. incl. index map, 16 tbls., July 1942.

Wilson, John Andrew

44 An amebelodon from Malheur County, Oregon: Jour. Paleontology, vol. 18, pp. 271-274, May 1944.

Wilson, Robert Warren

37a New middle Pliocene rodent and lagomorph faunas from Oregon and California: Carnegie Inst. Washington Pub. 487, pp. 1-19, 3 pls. 1938, (preprint), June 1937.

37b Pliocene rodents of western North America: Carnegie Inst. Washington Pub. 487, pp. 21-73, 2 figs., 1938, (preprint), July 1937.

Wilson, Thomas I.

See Michener, Raymond T., 45

Wimmer, Norman L.

44 (and others) Exploration of five western clay deposits: Am. Inst. Mining and Met. Eng., Mining Tech., T.P. 1739, vol. 8, no. 5, pp. 1-10, 5 figs., 2 tbls., Sept. 1944.

Wolff, Ferdinand Ludwig von

29 Der Vulkanismus, Band 2, Specieller Teil, Teil 1, Hälften 2, Stuttgart, Ferdinand Enke, 1929. (Contains the following: Die Vulkane Nordamerikas, pp. 535-724, 26 figs. incl. geol. sketch maps)

Wood, Albert Elmer

36a The Cricetid rodents described by Leidy and Cope from the Tertiary of North America: Am. Mus. Novitates 822, 8 pp., 5 figs., March 1936.

36b Geomyid rodents from the middle Tertiary: Am. Mus. Novitates 866, pp. 1-31, July 1936.

Woods, John B.

43 (and Rogers, Nelson S.) Geography of Oregon: 58 pp., 47 illus., 3 maps, Allyn and Bacon, New York, 1943. (Juvenile volume)

Wootten, Thomas P.

44 Antimony: U.S. Bur. Mines Minerals Yearbook for calendar year 1944, p. 771.

Work, R. A.

41 (and Ryan, J. H.) Oregon stream flow forecasts and factors influencing accuracy in 1940: Am. Geophys. Union Trans., pt. 1-B, p. 146 (\*), National Research Council, 1941.

AUTHOR INDEX - Works Progress Administration to Anonymous 36a

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Yale, C. G.

92 Borax: U.S. Geol. Survey Mineral Res. for 1889 and 1890, pp. 494-506 (Curry County priceite) 1892.

Yancey, H. F.

See also Geer, Max Richard, 43

40 (and Geer, Max Richard) Analyses and other properties of Oregon coals as related to their utilization: Oregon Dept. Geology and Min. Industries Bull. 20, 38 pp. (\*), 2 figs., 1940.

Yates, Robert G.

41 (and Roberts, Ralph Jackson) The "opalite" type of quicksilver deposit (abstract): Econ. Geology, vol. 36, no. 8, p. 839, Dec. 1941.

42 Quicksilver deposits of the Opalite district, Malheur County, Oregon, and Humboldt County, Nevada: U.S. Geol. Survey Bull. 931-N, p. iii, 319-348 (\*), 7 pls., 3 figs. incl. index geol. maps, 1942.

Yen, Teng-Chien

44 Notes on freshwater mollusks of Idaho formation at Hammett, Idaho: Jour. Paleontology, vol. 18, no. 1, pp. 101-102, 12 figs., Jan. 1944.

York, Harold Albert

39 The history of the placer mining era in the State of Idaho: Oregon Univ. Master's Thesis, 211 pp. (\*), June 1939.

Youngman, E. P.

31 Zirconium: U.S. Bur. Mines Inf. Circ. 6455, p. 19 (\*), (in black sands) June 1931.

Zapffe, Carl

44 Iron ores of the Pacific Northwest: Steel, vol. 11<sup>4</sup>, pp. 116, 118, April 1944.

Zodac, Peter

40 A mesolite locality in Oregon: Rocks and Minerals, vol. 15, no. 11, pp. 378-379, Nov. 1940.

Zvanut, Frank Joseph

See Goodspeed, George Edward

Anonymous

01 Placer mines of southern Oregon: Mining, vol. 8, no. 6, pp. 155-156, map, Spokane, Dec. 1901.

02 The Sumpter smelter: Mining, vol. 10, no. 6, pp. 149-150, Spokane, Dec. 1902.

03a Red Boy mine, Oregon: Mining, vol. 11, no. 11, pp. 7-10, 1 illus., Spokane, July 1903.

03b E. & E. Mine, Oregon: Mining, vol. 11, no. 1, pp. 6-7, Spokane, July 1903.

31 Foundation procedure at Owyhee Dam: Eng. News-Record, vol. 106, p. 178, New York, 1931.

36a Blue Bucket of '36 rivals one of 1850: Northwest Min., vol. 2, no. 7, p. 8, Aug. 1936.

AUTHOR INDEX - Anonymous

Anonymous (cont.)

36b Crooked River basin, Oregon, yields Tertiary fossils: Mineralogist, vol. 4, no. 9, p. 18, Sept. 1936.

37a Natural mounds of the Tenino (Wash.) area: Geol. Soc. Oregon Country News Letter, vol. 3, no. 7, pp. 72-73 (\*), April 1937.

37b Old Salmon Mt. Mine being operated again: Mining Journal, vol. 21, no. 5, p. 36, Phoenix, July 1937.

38a Port Orford meteorite: Geol. Soc. Oregon Country News Letter, vol. 4, no. 7, pp. 77-78 (\*), April 1938.

38b Dollars from Heaven (Port Orford meteorite): Time, pp. 25-26, Aug. 1938.

38c A forest cast in lava: Mineralogist, vol. 6, p. 14, Oct. 1938.

39a Rocks that float - a new metallurgical process: Ore.-Bin, vol. 1, no. 1, pp. 6-8, Jan. 1939.

39b Fissure eruptions near Bend: Ore.-Bin, vol. 1, no. 1, p. 5 (\*), Jan. 1939.

39c Oregon silica deposit being opened: Ore.-Bin, vol. 1, no. 2, p. 10 (\*), Feb. 1939.

39d Meteorites, testing: Ore.-Bin, vol. 1, no. 2, pp. 11-12 (\*), Feb. 1939.

39e Electrostatic separation of minerals: Ore.-Bin, vol. 1, no. 2, pp. 14-19 (\*), Feb. 1939.

39f Powder metallurgy: Ore.-Bin, vol. 1, no. 3, pp. 25-26, March 1939.

39g Oregon's gold production: Ore.-Bin, vol. 1, no. 4, p. 29 (\*), April 1939.

39h Aluminum from clay: Ore.-Bin, vol. 1, no. 4, pp. 30-32 (\*), April 1939.

1/ Ore.-Bin: published monthly by the Oregon Dept. Geology and Min. Industries.

39i Stream tin in Oregon: Ore.-Bin, vol. 1, no. 5, p. 34 (\*), May 1939.

39j Resurfacing gold dredge model completed: Ore.-Bin, vol. 1, no. 6, pp. 40-41 (\*), June 1939.

39k Pioneer Oregon industry (Willamette Salt Works): Ore.-Bin, vol. 1, no. 7, p. 46 (\*), July 1939.

39l What's new in mining: Ore.-Bin, vol. 1, no. 8, 50-56 (\*), Aug. 1939.

39m Fragment of "Portland meteor" found: Geol. Soc. Oregon Country News Letter, vol. 5, no. 17, p. 160 (\*), Sept. 1939.

39n Picture agate from Oregon: Rocks and Minerals, vol. 14, no. 12, p. 341, Dec. 1939.

39o Cobalt: Ore.-Bin, vol. 1, no. 10, p. 70 (\*), Oct. 1939.

40a Mineral wool: Ore.-Bin, vol. 2, no. 1, pp. 4-5 (\*), Jan. 1940.

40b How the microscope keeps Cornucopia on the ore: Mining World, vol. 2, no. 2, pp. 9-12, 5 illus., Feb. 1940.

40c Sumpter Valley - Oregon's largest dredge operation: Mining World, vol. 2, no. 2, pp. 25-26, 4 illus., Feb. 1940.

40d Gem of Sparta: Mining World, vol. 2, no. 2, p. 29, 3 illus., Feb. 1940.

40e Black sands: Ore.-Bin, vol. 2, no. 3, pp. 22-24, March 1940.

40f Warm spring dome in Snake River Canyon: Ore.-Bin, vol. 2, no. 1, p. 29 (\*), April 1940.

40g Spectrographic analysis: Ore.-Bin, vol. 2, no. 4, pp. 30-32 (\*), April 1940.

AUTHOR INDEX - Anonymous

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40h Snake River Park proposal - In abeyance, but not yet dead: *Mining World*, vol. 2, no. 6, pp. 23-24, June 1940.

40i Locating coal land: *Ore.-Bin*, vol. 2, no. 7, p. 53 (\*), July 1940.

40j Oregon mines' output soars: *Ore.-Bin*, vol. 2, no. 9, pp. 63-64 (\*), Sept. 1940.

40k Klamath fault exposed: *Ore.-Bin*, vol. 2, no. 9, p. 67 (\*), Sept. 1940.

40l Hardness of minerals: *Ore.-Bin*, vol. 2, no. 10, p. 73, Oct. 1940.

40m A mesolite locality in Oregon:  *Rocks and Minerals*, vol. 15, pp. 378-379, Oct. 1940.

40n New species fossil fern, *Tempskya*, Oregon: *Mineralogist*, vol. 8, no. 10, pp. 391-392, Oct. 1940.

40o Quicksilver production: *Ore.-Bin*, vol. 2, no. 11, p. 77 (\*), Nov. 1940.

40p Tin (History): *Ore.-Bin*, vol. 2, no. 12, pp. 81-83, Dec. 1940.

41a Exemption of assessment work: *Ore.-Bin*, vol. 3, no. 1, pp. 3-4. (\*). Jan. 1941.

41b Oregon mining operations, 1940: *Ore.-Bin*, vol. 3, no. 2, pp. 9-25 (\*), Feb. 1941.

41c Strategic minerals: *Ore.-Bin*, vol. 3, no. 3, pp. 34-36, March 1941.

41d Mineral products brought to Oregon: *Ore.-Bin*, vol. 3, no. 5, pp. 54-55 (\*), May 1941.

41e Oregon mining operations, 1940: *Ore.-Bin*, vol. 3, no. 7, pp. 72-74 (\*), July 1941.

41f Marketing chrome ore: *Ore.-Bin*, vol. 3, no. 9, pp. 91-93 (\*), Sept. 1941.

41g Building brick: *Ore.-Bin*, vol. 3, no. 10, pp. 100-103, Oct. 1941.

41h Zircon and zirconium: *Ore.-Bin*, vol. 3, no. 12, pp. 111-117, Nov. 1941.

41i Forty years in geologic mapping in Oregon: *Ore.-Bin*, vol. 3, no. 12, pp. 122-123, Dec. 1941.

41j Monazite: *Ore.-Bin*, vol. 3, no. 12, pp. 125-128 (\*), Dec. 1941.

42a New fossil locality: *Geol. Soc. Oregon Country News Letter*, vol. 8, no. 1, p. 225 (\*), January 1942.

42b Oregon chromite problems: *Ore.-Bin*, vol. 4, no. 1, pp. 2-3 (\*), Jan. 1942.

42c Spectrographic analysis: *Ore.-Bin*, vol. 4, no. 4, pp. 31-35 (\*), April 1942.

42d Paleontology, a practical science: *Ore.-Bin*, vol. 4, no. 5, pp. 44-46 (\*), May 1942.

42e Unusual manganese mineral (neotocite) found in Oregon: *Ore.-Bin*, vol. 4, no. 5, p. 44. (\*), May 1941.

42f Spectrographic analyses: *Ore.-Bin*, vol. 4, no. 5, pp. 47-48, May 1942.

42g Taxation of mines: *Ore.-Bin*, vol. 4, no. 8, pp. 76 (\*), Aug. 1942.

42h Salting (of mines): *Ore.-Bin*, vol. 4, no. 9, pp. 82-85 (\*), Sept. 1942.

42i Fluorescent light mineralogy: *Ore.-Bin*, vol. 4, no. 10, pp. 86-88 (\*), Oct. 1942.

42j The platinum metals: *Ore.-Bin*, vol. 4, no. 11, pp. 94-97, Nov. 1942.

42k Eastern Oregon; a scientific wonderland: *Mineralogist*, vol. 10, pp. 333-334, Nov. 1942.

AUTHOR INDEX - Anonymous

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421 Cobalt: Ore.-Bin, vol. 4, no. 12, pp. 100-103 (\*), Dec. 1942.

42m Oregon zeolites: Mineralogist, vol. 10, p. 383, Dec. 1942.

43a Tin in Oregon?: Mineralogist, vol. 11, p. 12, Jan. 1943.

43b Uses of the fifteen most important strategic minerals: Ore.-Bin, vol. 5, no. 1, pp. 1-3 (\*), Jan. 1943.

43c Titanium: Ore.-Bin, vol. 5, no. 1, pp. 4-6 (\*), Jan. 1943.

43d Oregon mining operations, 1942: Ore.-Bin, vol. 5, no. 2, pp. 7-14 (\*), March 1943.

43e Columbium and tantalum: Ore.-Bin, vol. 5, no. 3, pp. 16-20 (\*), March 1943.

43f The rare alkalies: Ore.-Bin, vol. 5, no. 5, pp. 29-34 (\*), May 1943.

43g Iceland spar: Ore.-Bin, vol. 5, no. 6, pp. 36-40 (\*), June 1943.

43h Sponge iron: Ore.-Bin, vol. 5, no. 7, pp. 41-45 (\*), July 1943.

43i Limestone deposits in Oregon: Ore.-Bin, vol. 5, no. 10, pp. 64-68 (\*), Oct. 1943.

44a How Krome Corporation worked the black sand deposits of the Oregon coast: Mining World, vol. 6, no. 1, pp. 7-12, Jan. 1944.

44b Diamonds: Ore.-Bin, vol. 6, no. 1, pp. 1-5 (\*), Jan. 1944.

44c Albert Burch: Mining and Metallurgy, vol. 24, no. 444, p. 582, Dec. 1943; vol. 25, no. 446, p. 144, Feb. 1944.

44d Bismuth: Ore.-Bin, vol. 6, no. 3, pp. 15-20 (\*), March 1944.

44e New localities (petrified forest)-Lebanon, Oregon: Mineralogist, vol. 12, pp. 69-84, March 1944.

44f Named by the Indians - Thunder eggs: Mineralogist, vol. 12, p. 92, March 1944.

44g Microchemistry in research and industry: Ore.-Bin, vol. 6, no. 5, pp. 29-36, May 1944.

44h Fluorspar: Ore.-Bin, vol. 6, no. 6, pp. 37-42 (\*), June 1944.

44i Bright future planned for the Pacific Northwest: Eng. and Min. Jour., vol. 145, pp. 82-83, Sept. 1944.

44j Oregon mineral production: Ore.-Bin, vol. 6, no. 10, pp. 67-68 (\*), Oct. 1944.

45a Bauxite found near Salem: Ore.-Bin, vol. 7, no. 5, pp. 33-34 (\*), May 1945.

45b A geological quiz: Ore.-Bin, vol. 7, no. 6, pp. 35-38 (\*), June 1945.

45c Port Orford meteorite: Ore.-Bin, vol. 7, no. 7, p. 46 (\*), July 1945.

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