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BIBLIOGRAPHY OF THE GEOLOGY AND MINERAL RESOURCES OF OREGON

SEVENTH SUPPLEMENT, 1976-1979

INTRODUCTION

The original *Bibliography of the Geology and Mineral Resources of Oregon* was compiled by R. C. Treasher and E. T. Hodge and published in 1936 by the Oregon State Planning Board. Since then, the Oregon Department of Geology and Mineral Industries has been updating this compilation periodically in its *Bulletin* series. The present Bulletin 102 is the seventh of such supplements. The previous supplements, their compilers, and the periods covered are listed below:

Supplement 1 (J. E. Allen, 1947), 1936-1945: Bulletin 33.

Supplement 2 (M. L. Steere, 1953), 1946-1950: Bulletin 44.

Supplement 3 (M. L. Steere and L. F. Owen, 1962), 1951-1955: Bulletin 53.

Supplement 4 (M. Roberts, 1970), 1956-1960: Bulletin 67.

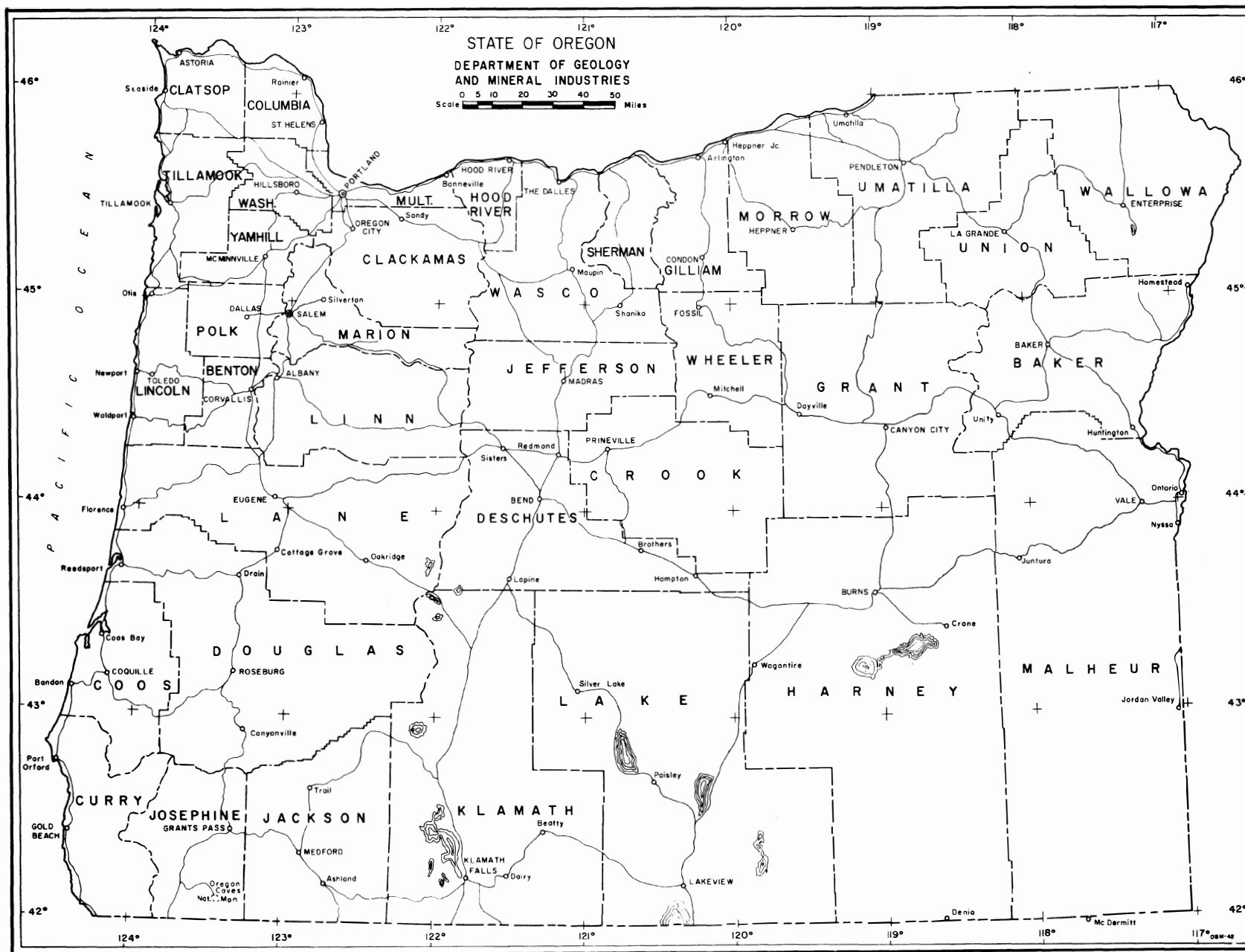
Supplement 5 (M. Roberts, M. L. Steere, and C. S. Brookhyser, 1973), 1961-1970: Bulletin 78.

Supplement 6 (GeoRef and Oregon Department of Geology and Mineral Industries, 1978), 1971-1975: Bulletin 97.

As in the case of the 6th supplement (Bulletin 97), GeoRef Information System of the American Geological Institute, John G. Mulvihill, Director, has compiled the bibliography and edited and supplemented it in cooperation with the Oregon Department of Geology and Mineral Industries.

In format, then, Bulletin 102 is quite similar to Bulletin 97: The bibliography proper is accessible through subject, county, and rock-unit indexes. In addition, a serials list explains abbreviations for serials mentioned in the bibliography. The map showing Oregon's counties is included for assistance in using the county index or such subject terms as "Areal geology."

Although every possible effort has been made to present a complete bibliography, the compilers are painfully aware of shortcomings and uncertainties in the listing. Users of the bibliography are urged to notify the Oregon Department of Geology and Mineral Industries of any omissions or errors that come to their attention.



OREGON COUNTIES

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 - Lead:* The Cascade Mountains revisited; a re-evaluation in light of new lead isotopic data (Church, S. E. 1976)
 - Nitrogen:* Nitrous oxide and methane in Alsea Bay, Oregon (de Angelis, M. A. 1979)
- Geochemistry—Processes**
 - Fractionation:* Behavior of major solutes during closed-basin brine evolution (Eugster, H. P. 1979)
- Geochemistry—Surveys**
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 - The age of Lava Butte (Chitwood, L. A. 1977)
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- Geochronology—Fission-track dating**
 - Applications:* Dating methods of Pleistocene deposits and their problems; V, Teprochronology and fission-track dating (Westgate, J. A. 1980)
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 - Pumice:* Hydration dating of volcanism at Newberry Crater, Oregon (Friedman, I. 1977)
- Geochronology—Paleomagnetism**
 - Basalt:* Paleomagnetism of basalt flows, North central Deschutes-Umatilla Plateau, Oregon (Farooqui, S. M. 1976)
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 - Western U.S.:* Strain accumulation rates in the western United States between 1970 and 1978 (Prescott, W. H. 1979)
- Geologic hazards** *see also* Engineering geology; Environmental geology; *see also* Engineering geology under Pacific Coast; *see also* Environmental geology under Pacific Coast
- Geomorphology** *see also* Glacial geology
- Geomorphology**
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 - Quaternary glaciation and volcanism, Metolius River area, Oregon (Scott, W. E. 1977)
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- Geomorphology—Eolian features**
 - Dunes:* Daily cycles in coastal dune deposits (Hunter, R. E. 1978)
- Geomorphology—Fluvial features**
 - Channels:* A channel stability inventory for two streams on the eastern slopes of the Coast Range, Oregon (Sachet, J. A. 1978)
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 - Waterfalls:* Waterfall alcoves in the Columbia Gorge (Allen, John E. 1979)
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 - Craters:* Diamond Craters; Oregon's geologic gem (Smurthwaite, D. 1979)
- Geomorphology—Lacustrine features**
 - Lakes:* Beyond the seventh dune (Baugh, T. 1978)

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- Geophysics** *see also* Deformation; Engineering geology
- Geosynclines** *see also* Orogeny
- Geosynclines—Evolution**
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- Geothermal energy** *see also under* Economic geology; *see also under* Economic geology *under* Basin and Range Province; Pacific Coast; Western U.S.
- Geothermal energy—Exploration**
 - Electromagnetic methods:* Design and application of a mega-moment electromagnetic dipole source (Riveros, C. A. 1979)
- Geothermal energy—Properties**
 - Reservoir rocks:* Research on the physical properties of geothermal reservoir rock; quarterly report, March 1978 (Keller, G. V. 1978)
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- Glacial geology—Glacial features**
 - Cirques:* Comparison of relative age dating (RAD) data from eastern Sierra Nevada cirque deposits with those from the tephrochronologically age controlled deposits of the Wallowa Mountains, Oregon (Burke, R. M. 1978)
- Glacial geology—Glaciation**
 - Deposition:* Steens Mountain, Oregon (Lund, E. H. 1976)
 - Extent:* Quaternary geology of the Pacific Northwest (Easterbrook, D. J. 1976)
 - Quaternary glaciation and volcanism, Metolius River area, Oregon (Scott, W. E. 1977)
- Glacial geology—Glaciers**
 - Meltwater:* Geology and hydrology of the Lost Creek glacial trough (Lund, E. H. 1977)
- Glacial geology—Periglacial features**
 - Floodplains:* Late Pleistocene sediments and floods in the Willamette Valley (Allison, I. S. 1978)
- Glaciation** *see under* Glacial geology
- Glaciers** *see under* Glacial geology
- Gold** *see also under* Economic geology
- Grabens** *see under* Systems *under* Faults
- Graded bedding** *see under* Environmental analysis *under* Sedimentary structures; *see under* Interpretation *under* Sedimentary structures
- Granite** *see also under* Granite-granodiorite family *under* Igneous rocks
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- Graptolithina—Biostratigraphy**
 - Devonian:* Status of Devonian studies in western and Arctic North America (Johnson, J. G. 1977)
- Gravel** *see also under* Economic geology; *see also under* Economic geology *under* Pacific Coast
- Gravity surveys** *see under* Geophysical surveys; *see under* Geophysical surveys *under* Basin and Range Province; Pacific Coast; Western U.S.
- Great Basin—Hydrogeology**
 - Hydrology:* A trace of desert waters; the Great Basin story (Houghton, S. G. 1976)
 - Springs:* Geothermal investigation of the Alvord Valley, Southeast Oregon (Cleary, J. G. 1976)
- Great Basin—Stratigraphy**
 - Cambrian:* Middle Cambrian trilobite biostratigraphy of the Great Basin (Robison, R. A. 1976)
 - Holocene:* Holocene environmental change in the Great Basin (Elston, R. 1976)
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 - Neotectonics:* Late Cenozoic tectonic evolution of the western United States (Livaccari, R. F. 1979)
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- Ground water—Contamination**
 - Water resources:* Protection of ground water from nonpoint sources of pollution (Schmidt, K. D. 1977)
- Ground water—Geochemistry**
 - Metamorphic rocks:* A model for fluids in metamorphosed ultramafic rocks (Pfeifer, H. R. 1977)
- Ground water—Surveys**
 - Pacific Coast:* Ground-water levels in the United States, 1971-74; Northwestern States (U. S. Geological Survey. 1977)
 - Regional:* Electrical resistivity survey and evaluation of the Glass Buttes geothermal anomaly, Lake County, Oregon (Hull, Donald A. 1976)
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- Hydrogen—Abundance**
 - Josephinite:* Rare gases and hydrogen in josephinite (Craig, H. 1979)
- Hydrogen—Isotopes**
 - D/H:* Geochemical studies of rocks, water, and gases at Mt. Hood, Oregon (Wollenberg, Harold A. 1979)
- Hydrogeology** *see also* Ground water; Hydrology
- Hydrogeology**
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 - Hydrology:* A physically-based approach to watershed partitioning (Spangenberg, N. E. 1976)
 - A preliminary evaluation of dissolved-oxygen depletion in the South Santiam River (Rinella, F. A. 1979)
 - Advances in watershed hydrology (Brown, G. W. 1979)
 - Analysis of urban storm-water quality from seven basins near Portland, Oregon (Miller, T. L. 1978)
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- Heat flow** *see also under* Geophysical surveys; Tectonophysics; *see also under* Geophysical surveys *under* Pacific Coast; *see also under* Tectonophysics *under* Pacific Coast; Western U.S.
- Heavy minerals** *see also under* Economic geology; Placers
- Helium—Isotopes**
 - He-3:* Excess ^3He and ^{21}Ne in josephinite (Bochsler, P. 1978)
 - Ratios:* Noble gases in the upper mantle (Basu, A. R. 1977)
- Holocene** *see also under* Geochronology; Stratigraphy; *see also under* Geochronology *under* Pacific Coast; *see also under* Stratigraphy *under* Great Basin
- Holocene—Stratigraphy**
 - Biostratigraphy:* Radiolarian ratios and Pleistocene-Holocene boundary (McMillen, K. J. 1979)
- Hydration of glass** *see under* Geochronology
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- Irrigation-return flow from pastures and orchards in Bear Creek basin, Jackson County (McKenzie, S. W. 1979)
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- Water quality of active and inactive log ponds (Rinella, J. F. 1978)
- Maps:** Geology and hydrology of the Lost Creek glacial trough (Lund, E. H. 1977)
- Ground water in the Harrisburg-Halsey area, southern Willamette Valley, Oregon (Frank, F. J. 1976)
- Low- to intermediate-temperature thermal springs and wells in Oregon (Bowen, Richard G. 1978)
- Springs:** Alvord Valley, Oregon geothermal investigation (Cleary, J. G. 1976)
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Geochemistry: Behavior of major solutes during closed-basin brine evolution (Eugster, H. P. 1979)

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Age: K/Ar and ⁴⁰Ar/³⁹Ar dating of assumed Columbia River Basalt equivalents in the western Cascades of Oregon (Lux, D. R. 1978)

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- Geochemistry and origin of basalt of the Columbia River Group, Oregon and Washington (McDougall, I. 1976)
- Major exploratory trenches for Pebble Springs Nuclear Project, Gilliam County, Oregon (Farooqui, S. M. 1976)
- Petrogenesis of Picture Gorge basalts; a preliminary report (Goles, G. G. 1976)
- Preliminary correlation of lower Yakima Basalt flows in western Oregon with the type area in central Washington (Beeson, Marvin H. 1976)
- Slaking basalts (Higgs, N. B. 1976)
- Structural implications of the Yakima Basalt in North central Oregon and South central Washington (Farooqui, S. M. 1976)
- Genesis:** Evidence of partial melting and fractional crystallization of Columbia River Basalt magmas, Oregon and Washington (Ross, M. E. 1979)
- The origin of the Miocene basalts of coastal Oregon and Washington; an alternative hypothesis (Beeson, Marvin H. 1979)
- Petrography:** The stratigraphy and petrogenesis of the Grande Ronde Basalt in the lower Salmon and adjacent Snake River canyons (Reidel, S. P. 1978)
- Weathering:** Natural and artificial weathering of basalt, northwestern United States (White, R. W. 1978)
- Igneous rocks—Calc-alkalic composition**
 - Mineral composition:** Crystal clots, amphibole fractionation, and the evolution of calc-alkaline magmas (Garcia, M. O. 1977)
 - Petrology:** Crystal clots, amphibole fractionation and the evolution of calc-alkaline magmas (Garcia, M. O. 1979)
- Igneous rocks—Composition**
 - Mineral composition:** Volcanoes and plutons in magmatic arcs (Eichelberger, J. C. 1978)
- Igneous rocks—Diorite family**
 - Diorite:** Evidence for magmatic assimilation in several diorites of the middle Columbia River gorge (Free, M. R. 1976)
- Igneous rocks—Gabbro family**
 - Textures:** Textural banding in igneous rocks; an example from southwestern Oregon (Jorgenson, D. B. 1979)
- Igneous rocks—Geochemistry**
 - Genesis:** Rb-Sr and K-Ar geochronometry of granitic rocks west of the Idaho Batholith in western Idaho and Northeast Oregon (Armstrong, R. L. 1976)
 - Isotopes:** Lead isotopic results from rocks from the central Andes; a comparison with data from other orogenic volcanic rocks in crustal arcs (Church, S. E. 1976)
- Igneous rocks—Granite-granodiorite family**
 - Granite:** Major element geochemistry and origin of albite granite near Sparta, Oregon (Almy, R. 1978)
 - Origin of albite granites near Sparta, northeastern Oregon (Phelps, D. W. 1977)
 - Granodiorite:** Geology of the Quartzburg mining district, Grant County, Oregon (Johnson, F. R. 1975)
- Igneous rocks—Petrology**
 - Lithostratigraphy:** Geology of the Bachelor Mountain area, Linn and Marion counties, Oregon (Rollins, A. 1976)
- Igneous rocks—Pyroclastics and glasses**
 - Ash-flow tuff:** Revisions to the Cenozoic stratigraphy of Harney Basin, southeastern Oregon (Walker, G. W. 1979)
 - Ash flows:** Climactic eruption of Crater Lake, Oregon; evidence for crystal fractionation in a water-undersaturated magma (Ritchey, J. L. 1979)
 - Composition:** Tephra layer from boreholes in Columbia Basin alluvium (Beeson, Marvin H. 1978)
 - Distribution:** The last eruptions at Newberry Volcano, central Oregon (Sherrod, D. R. 1979)
 - Ignimbrite:** Petrography of the Rattlesnake Formation at the type area, central Oregon (Enlows, Harold E. 1976)
 - Obsidian:** Obsidian and its formation (Bakken, B. 1977)
 - Obsidian hydration dates for Klamath prehistory (Aikens, C. M. 1978)
 - Oregon's incredible Glass Buttes (Hefflin, E. 1979)
 - Pumice:** Source directions of pumice and ash deposits near Bend, Oregon (Mimura, K. 1978)
 - Tuff:** Near vent characteristics of the Dinner Creek ash-flow tuff, eastern Oregon (Wood, John D. 1976)
 - Stratigraphy and petrography of the Selah Member, Roosevelt-Arlington area, North central Oregon and South central Washington (Farooqui, S. M. 1978)
 - Volcanic ash:** Bracketing dates for two ash falls from Mount Mazama (Mack, R. N. 1979)
 - Climactic eruptions of Crater Lake; evidence for an early stage of mixing within a pluton (Eichelberger, J. C. 1978)
- Igneous rocks—Syenite family**
 - Nepheline syenite:** Nepheline syenite, STM-1, from Table Mountain, Oregon (Snively, P. D., Jr. 1976)
- Igneous rocks—Ultramafic family**
 - Complexes:** Geology of the gabbroic complex along the northern border of the Josephine Peridotite, Vulcan Peak area, southwestern Oregon (Loney, R. A. 1977)
 - Dunite:** Formation of small dunite bodies from harzburgite by metasomatic transformation in the Canyon Mountain ophiolite, Oregon (Dungan, M. A. 1976)
- Genesis:** Magma genesis 1977; proceedings of the American Geophysical Union Chapman conference on partial melting in the Earth's upper mantle (Dick, H. J. B. 1977)
- Harzburgite:** Formation of small dunite bodies by metasomatic transformation of harzburgite in the Canyon Mountain Ophiolite, Northeast Oregon (Dungan, M. A. 1977)
- Rogue River island arc complex, western Jurassic belt, Klamath Mountains, Oregon (Garcia, M. O. 1976)
- Hornblende:** Hornblende and related rocks from the contact zone of a hornblende diorite pluton in Southwest Oregon; a geochemical and petrographic study (Eldridge, C. Stewart. 1977)
- Ophiolite:** Jurassic ophiolitic rocks in the Klamath Mountains, S.W. Oregon and implications for pre-Nevadan paleogeography (Vail, Scott G. 1977)
- North American ophiolites (Coleman, R. G. 1977)
- Ophiolites, seismic velocities and oceanic crustal structure (Christensen, N. I. 1978)
- Ophiolitic terranes of California, Oregon, and Nevada (Irwin, W. P. 1977)
- Ophiolitic terranes of part of the western United States (Irwin, W. P. 1979)
- Paleozoic rocks of eastern Oregon and western Idaho (Vallier, T. L. 1977)
- Petrology and geochemistry of silicic rocks in the Canyon Mountain ophiolite, northeastern Oregon (Gerlach, D. C. 1979)
- Plate tectonics and the geologic history of the Blue Mountains (Brooks, Howard C. 1979)
- Some implications of sheeted dike swarms in ophiolitic complexes (Thayer, T. P. 1978)
- Structure of the Canyon Mountain (Oregon) ophiolite complex and its implication for sea-floor spreading (Ave Lallemand, H. G. 1976)
- The Canyon Mountain Complex, Oregon, and some problems of ophiolites (Thayer, T. P. 1977)
- The Josephine Complex; an ophiolite in Southwest Oregon (Vail, Scott G. 1976)
- Peridotite:** Application of pyroxene and olivine-spinel geothermometers to the alpine peridotites in southwestern Oregon (Henry, D. J. 1976)
- Complementary meta-gabbros and peridotites in the northern Klamath Mountains, U.S.A. (Kays, M. A. 1977)
- Compositional layering in alpine peridotites; evidence for pressure solution creep in the mantle (Dick, H. J. B. 1979)
- Evidence of partial melting in the Josephine Peridotite (Dick, H. J. B. 1977)
- Partial melting in the Josephine Peridotite; I, The effect on mineral composition and its consequence for geobarometry and geothermometry (Dick, H. J. B. 1977)
- Structure of the Vulcan Peak alpine-type peridotite, southwestern Oregon (Loney, R. A. 1976)
- The geology and distribution of josephinite in the Josephine Peridotite, Southwest Oregon (Leavell, D. N. 1979)
- The origin and emplacement of the Josephine Peridotite of southwestern Oregon (Dick, H. J. B. 1976)
- Trace element abundances in josephinite and related rocks (Goettel, K. A. 1978)
- Igneous rocks—Volcanic rocks**
 - Age:** K-Ar geochronology and stratigraphy of the Roxy, Wasson, and Heppie formations, southern Oregon (Smith, J. G. 1977)
 - Andesite:** Interrelations of lower Tertiary volcanic fields in northwestern interior United States (Prostka, H. J. 1977)
 - The Clarno Formation; a record of early Tertiary volcanism in central Oregon (Taylor, Edward M. 1977)
 - The Clarno Formation of central Oregon, U.S.A.; volcanism on a thin continental margin (Rogers, J. J. W. 1977)
 - Basalt:** Geology and structure of the Brothers fault zone in the central part of the Millican SE Quadrangle, Deschutes County, Oregon (Tucker, E. R. 1975)
 - Steens Mountain, Oregon (Lund, E. H. 1976)
 - The Cascade Mountains revisited; a re-evaluation in light of new lead isotopic data (Church, S. E. 1976)
 - Calc-alkalic composition:** Magmatic evolution of the central Oregon Cascades (McBirney, A. R. 1976)
 - Miocene volcanism in eastern Oregon; an example of calc-alkaline volcanism unrelated to subduction (Robyn, T. L. 1979)
 - Non-subduction related late-Miocene calc-alkaline volcanic activity in NE Oregon (Robyn, T. L. 1977)
 - Origin of divergent magmas at Crater Lake, Oregon (Ritchey, J. L. 1979)
 - Complexes:** Geology of a volcanic complex on the south flank of Mt. Jefferson, Oregon (Gannon, Brian L. 1977)
 - Composition:** Cenozoic volcanism in the Cascade Range, Medford 2" sheet, southern Oregon (Smith, J. G. 1979)
 - Geochemistry of a volcanogenic massive sulfide deposit, Blue Creek District, Oregon (Cunningham, C. T. 1978)
 - Some quantitative aspects of orogenic volcanism in the Oregon Cascades (McBirney, A. R. 1977)
 - Some quantitative aspects of orogenic volcanism in the Oregon Cascades (White, Craig M. 1978)
 - Evolution:** Volcanic evolution of the Cascade Range (McBirney, A. R. 1978)

Genesis: Origin of a continental calc-alkaline volcanic suite, NE Oregon (Robyn, T. L. 1977)

— Petrology and evolution of Mount Mazama (Crater Lake); a geochemical study (Leeman, W. P. 1979)

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— An evaluation of dike-flow correlations indicated by geochemistry, Chief Joseph Swarm, Columbia River Basalt (Price, S. A. M. 1977)

— Basalts of Oregon (U.S.A.) and their geotectonic environment; II, Petrochemistry of Tertiary and Quaternary basalts and andesites of the Western and High Cascades (Loeschke, J. 1979)

— Petrology of the Strawberry Volcanics, NE Oregon (Robyn, T. L. 1978)

— Preliminary study of the uranium favorability of Malheur County, Oregon (Erikson, E. H. 1977)

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— Trace elements in continental-margin magmatism; Part I, Trace elements in the Clarno Formation of central Oregon and the nature of the continental margin on which eruption occurred (Rogers, J. J. W. 1980)

Lava: The geology of Jordan Craters, Malheur County, Oregon (Otto, B. R. 1977)

— The John Day Formation of Oregon; a record of early Cascade volcanism (Robinson, P. T. 1979)

Lithostratigraphy: The Permian and Triassic Seven Devils Group, western Idaho and northeastern Oregon (Vallier, T. L. 1977)

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Petrology: Newberry Volcano, Oregon; preliminary results of new field investigations (MacLeod, N. S. 1978)

— Stratigraphy, structure, and petrology of Columbia River Basalt in a portion of the Grande Ronde River - Blue Mountains area of Oregon and Washington (Ross, M. E. 1978)

Rhyolite: Late Cenozoic ash-flow tuffs and their vents, eastern Oregon (Walker, G. W. 1976)

Subalkaline composition: Studies of phase relations in subalkaline volcanic rock series (Osborn, E. F. 1977)

Trace elements: Geology and petrology of the Strawberry Volcanics, NE Oregon (Robyn, T. L. 1977)

Tuff: Field guide to the geology of Corvallis and vicinity, Oregon (Lawrence, Robert D. 1977)

— Volcanism and mineralization of the McDermitt Caldera, Nevada-Oregon (Rytuba, J. J. 1976)

Volcanism: Hydration dating of volcanism at Newberry Crater, Oregon (Friedman, I. 1977)

— The age of Lava Butte (Chitwood, L. A. 1977)

Ignimbrite *see under* Pyroclastics and glasses *under* Igneous rocks

Impact features *see under* Geomorphology

Impact statements *see also under* Environmental geology; *see also under* Environmental geology *under* Western U.S.

Inclusions—Mineral inclusions

Agate: Inclusions in agate and their origins and significance (Pabian, R. K. 1978)

Host materials: Mineralogy and petrogenesis of the Yapoah basaltic andesite, McKenzie Pass area, central Oregon (Green, N. L. 1978)

Industrial minerals *see also under* Economic geology *under* Pacific Coast; Western U.S.

Inert gases *see* Noble gases

Infrared surveys *see under* Geophysical surveys; *see under* Geophysical surveys *under* Pacific Coast

Intrusions—Age

Absolute age: Rb-Sr and K-Ar geochronometry of Mesozoic granitic rocks and their Sr isotopic composition, Oregon, Washington, and Idaho (Armstrong, R. L. 1977)

Intrusions—Batholiths

Age: Rb-Sr and K-Ar geochronometry of granitic rocks west of the Idaho Batholith in western Idaho and Northeast Oregon (Armstrong, R. L. 1976)

Composition: An early Mesozoic alkaline magmatic belt in western North America (Miller, C. F. 1978)

Emplacement: Subduction, accretion, and batholith emplacement (Castil, R. G. 1978)

Guidebook: The Idaho Batholith and related subduction complex (Hyndman, D. W. 1976)

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Crystallization: Evidence of partial melting and fractional crystallization of Columbia River Basalt magmas, Oregon and Washington (Ross, M. E. 1979)

Emplacement: Evolution of composite volcanoes; the role of dike and sill emplacement within the volcanic edifice (Crowe, B. 1978)

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Orientation: Gently dipping feeder dikes for Columbia River Basalt Group (Swanson, D. A. 1978)

Paleomagnetism: Tectonic rotation of the Oregon Coast Range (Cox, A. 1977)

Swarms: Some implications of sheeted dike swarms in ophiolitic complexes (Thayer, T. P. 1978)

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Trace elements: Petrology, geochemistry, and structural geology of Mesozoic rocks in the Sparta Quadrangle and Oxbow and Brownlee Reservoir areas, eastern Oregon and western Idaho (Phelps, D. W. 1978)

Intrusions—Plutons

Evolution: Pre-Cenozoic tectonic framework, eastern Oregon and western Idaho (Brooks, Howard C. 1976)

Genesis: Climactic eruptions of Crater Lake; evidence for an early stage of mixing within a pluton (Eichelberger, J. C. 1978)

Geochemistry: Hornblende and related rocks from the contact zone of a hornblende diorite pluton in Southwest Oregon; a geochemical and petrographic study (Eldridge, C. Stewart. 1977)

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Plugs: Evidence for magmatic assimilation in several diorites of the middle Columbia River gorge (Free, M. R. 1976)

Intrusions—Structure

Magma chambers: Amphibole stability in a differentiated calc-alkaline magma chamber; an experimental investigation (Ritchey, J. L. 1978)

Invertebrata *see also* Annelida; Arthropoda; Brachiopoda; Bryozoa; Coelenterata; Echinodermata; Foraminifera; Graptolithina; Mollusca; Radiolaria; Trilobita

Invertebrata—Biogeography

Quaternary: Late Pleistocene and Holocene zoogeography, Pacific Northwest coast (Kennedy, G. L. 1979)

Invertebrata—Biostratigraphy

Cenozoic: Late Cenozoic marine invertebrates from Northwest California and Southwest Oregon (Roth, B. 1979)

Invertebrata—Ecology

Tidal environment: Pacific seashores; a guide to intertidal ecology (Carefoot, T. 1977)

Iron *see also under* Economic geology *under* Pacific Coast

Iron—Abundance

Ground water: Iron distribution and geochemistry in a coastal dunes aquifer at Coos Bay (Luzier, J. E. 1979)

Isostasy *see also under* Structural geology *under* Pacific region; *see also under* Tectonophysics *under* Pacific Coast

Isotope dating *see* Absolute age

Isotopes *see also* Absolute age; Geochronology

Isotopes—Abundance

Mantle: Noble gases in the upper mantle (Basu, A. R. 1977)

Radioactive isotopes: Decline of radioactivity in the Columbia River and estuary; rates and mechanisms (Johnson, V. G. 1978)

Isotopes—Lead

Pb-206/Pb-204: The Cascade Mountains revisited; a re-evaluation in light of new lead isotopic data (Church, S. E. 1976)

Ratios: Lead isotopic results from rocks from the central Andes; a comparison with data from other orogenic volcanic rocks in crustal arcs (Church, S. E. 1976)

— Regional variations in the lead isotopic characteristics of late Cenozoic basalts from the southwestern United States (Everson, J. E. 1979)

Isotopes—Manganese

Mn-56: A biogeochemical study of manganese in the estuarine zone (Flegal, A. R., Jr. 1979)

Isotopes—Noble gases

Abundance: Anomalous noble gases in josephinite and associated rocks? (Bernatowicz, T. J. 1979)

— Origin of josephinite (Bird, J. M. 1979)

Analysis: Excess ^3He and ^{21}Ne in josephinite (Bochsler, P. 1978)

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O-18/O-16: Direct marine-continental correlation; 150,000-year oxygen isotope-pollen record from the North Pacific (Heusser, L. E. 1979)

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Ra-226: Geochronology on Cascadia abyssal plain using high resolution gamma ray spectrometry (Cutshall, N. H. 1978)

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Ground water: Geochemical studies of rocks, water, and gases at Mt. Hood, Oregon (Wollenberg, Harold A. 1979)

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Sr-87/Sr-86: A tectonic interpretation of strontium isotopic variations in late Cenozoic lavas; Western U.S. (Leeman, W. P. 1979)

— Diagenetic alteration and formation of authigenic minerals in the Miocene "Rome Beds", Southeast Oregon (Campion, K. M. 1979)

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— Petrology and evolution of Mount Mazama (Crater Lake); a geochemical study (Leeman, W. P. 1979)

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— Some quantitative aspects of orogenic volcanism in the Oregon Cascades (McBirney, A. R. 1977)

Isotopes—Xenon

Xe-129: Josephinite; a terrestrial alloy with radiogenic xenon-129 and the noble gas imprint of iron meteorites (Downing, R. G. 1977)

Joints *see under* Style *under* Fractures

Jurassic *see also under* Stratigraphy

Krypton—Isotopes

Kr-84: Noble gases in the upper mantle (Basu, A. R. 1977)

Lakes *see under* Environment *under* Sedimentation; *see under* Lacustrine features *under* Geomorphology

Land use *see also under* Engineering geology; Environmental geology; *see also under* Environmental geology *under* Automatic data processing; Pacific Coast

Land use—Inventory

Remote sensing: Land use analysis in unurbanized areas (Jensen, J. R. 1979)

Landform description *see under* Geomorphology

Landslides *see under* Mass movements *under* Geomorphology

Lava *see also* Igneous rocks; Magmas

Lava—Age

Absolute age: K-Ar geochronology and stratigraphy of the Roxy, Wasson, and Heppie formations, southern Oregon (Smith, J. G. 1977)

— K/Ar and ⁴⁰Ar/³⁹Ar dating of assumed Columbia River Basalt equivalents in the western Cascades of Oregon (Lux, D. R. 1978)

— ⁴⁰Ar-³⁹Ar age determinations on the Owyhee basalt of the Columbia Plateau (Bottomley, R. J. 1976)

— ⁴⁰Ar-³⁹Ar geochronology of basalts from ocean basins; some successes with samples from aseismic ridges (Duncan, R. A. 1978)

Lava—Composition

Evolution: Petrology and evolution of Mount Mazama (Crater Lake); a geochemical study (Leeman, W. P. 1979)

Lava—Distribution

Age: Rhyolitic volcanism in southeastern Oregon and the Snake River plain, Idaho; similarities and contrasts (Walker, G. W. 1977)

Lava—Genesis

Equilibria: Isostasy and petrogenesis (Abramovich, I. I. 1977)

Obsidian: Obsidian and its formation (Bakken, B. 1977)

Lava—Geochemistry

Isotopes: A tectonic interpretation of strontium isotopic variations in late Cenozoic lavas; Western U.S. (Leeman, W. P. 1979)

Lava flows: An evaluation of dike-flow correlations indicated by geochemistry, Chief Joseph Swarm, Columbia River Basalt (Price, S. A. M. 1977)

— Petrology of the Strawberry Volcanics, NE Oregon (Robyn, T. L. 1978)

Major elements: Geochemistry and origin of basalt of the Columbia River Group, Oregon and Washington (McDougall, I. 1976)

Trace elements: Miocene volcanism in eastern Oregon; an example of calc-alkaline volcanism unrelated to subduction (Robyn, T. L. 1979)

— The stratigraphy and petrogenesis of the Grande Ronde Basalt in the lower Salmon and adjacent Snake River canyons (Reidel, S. P. 1978)

— Trace elements in continental-margin magmatism; Part I, Trace elements in the Clarno Formation of central Oregon and the nature of the continental margin on which eruption occurred (Rogers, J. J. W. 1980)

Uranium: Uranium contents of glassy and devitrified andesites and dacites, Mount Mazama, Oregon (Noble, D. C. 1980)

Lava—Observations

Lava flows: Newberry Volcano, Oregon; preliminary results of new field investigations (MacLeod, N. S. 1978)

Lava—Petrology

Andesite: Mineralogy and petrogenesis of the Yapoah basaltic andesite, McKenzie Pass area, central Oregon (Green, N. L. 1978)

Cenozoic: The geology of Jordan Craters, Malheur County, Oregon (Otto, B. R. 1977)

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— Stratigraphy, structure, and petrology of Columbia River Basalt in a portion of the Grande Ronde River - Blue Mountains area of Oregon and Washington (Ross, M. E. 1978)

— Volcanic petrology of the Eocene Clarno Formation on the John Day River near Cherry Creek, Oregon (Noblett, J. B. 1980)

Lava—Properties

Magnetic properties: Magnetostatigraphy and correlation of Miocene basalts of the northern Oregon coast and Columbia Plateau, Southeast Washington (Choiniere, S. R. 1979)

— Magnetostratigraphy of the Imnaha and Grande Ronde basalts in the southeast part of the Columbia Plateau (Hooper, P. R. 1979)

Lava—Structure

Lava caves: The lava caves of Saddle Butte (Carson, C. V. 1977)

Lava flows: Stratigraphy and structure of the Columbia River Basalt in the Cascade Range, Oregon (Beeson, Marvin H. 1979)

Lead—Abundance

Water: Stream sediment geochemistry, northeastern Oregon (Anonymous. 1976)

— Streets contribute much lead to urban runoff (Miller, T. L. 1978)

Lead—Isotopes

Ratios: Lead isotopic results from rocks from the central Andes; a comparison with data from other orogenic volcanic rocks in crustal arcs (Church, S. E. 1976)

— Regional variations in the lead isotopic characteristics of late Cenozoic basalts from the southwestern United States (Everson, J. E. 1979)

— The Cascade Mountains revisited; a re-evaluation in light of new lead isotopic data (Church, S. E. 1976)

Limestone *see also under* Carbonate rocks *under* Sedimentary rocks

Limnology *see under* Hydrology

Lineation *see also* Foliation; Structural analysis

Lithium *see also under* Economic geology

Magmas *see also* Igneous rocks; Intrusions; Lava

Magmas—Differentiation

Calc-alkalic composition: Geology and petrology of the Strawberry Volcanics, NE Oregon (Robyn, T. L. 1977)

Evolution: Some quantitative aspects of orogenic volcanism in the Oregon Cascades (McBirney, A. R. 1977)

Fractional crystallization: Climactic eruption of Crater Lake, Oregon; evidence for crystal fractionation in a water-undersaturated magma (Ritchey, J. L. 1979)

— Evidence of partial melting and fractional crystallization of Columbia River Basalt magmas, Oregon and Washington (Ross, M. E. 1979)

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Geochemistry: Geochemistry and origin of basalt of the Columbia River Group, Oregon and Washington (McDougall, I. 1976)

Lava: Mineralogy and petrogenesis of the Yapoah basaltic andesite, McKenzie Pass area, central Oregon (Green, N. L. 1978)

Mixing: Climactic eruptions of Crater Lake; evidence for an early stage of mixing within a pluton (Eichelberger, J. C. 1978)

— Volcanoes and plutons in magmatic arcs (Eichelberger, J. C. 1978)

Temperature: Studies of phase relations in subalkaline volcanic rock series (Osborn, E. F. 1977)

Volcanic rocks: Origin of a continental calc-alkaline volcanic suite, NE Oregon (Robyn, T. L. 1977)

— Petrology of the Strawberry Volcanics, NE Oregon (Robyn, T. L. 1978)

Magmas—Evolution

Calc-alkalic composition: Crystal clots, amphibole fractionation and the evolution of calc-alkaline magmas (Garcia, M. O. 1979)

Fractionation: Crystal clots, amphibole fractionation, and the evolution of calc-alkaline magmas (Garcia, M. O. 1977)

Genesis: Magmatic evolution of the central Oregon Cascades (McBirney, A. R. 1976)

Magmas—Genesis

Concepts: Some geologic constraints on models for magma generation in orogenic environments (McBirney, A. R. 1976)

Properties: Inferred depths of origin of High Cascade magmas (Goles, G. G. 1977)

Magmas—Geochemistry

Contamination: A tectonic interpretation of strontium isotopic variations in late Cenozoic lavas; Western U.S. (Leeman, W. P. 1979)

Magmas—Processes

Partial melting: Evidence of partial melting in the Josephine Peridotite (Dick, H. J. B. 1977)

Magmas—Properties

Viscosity: Viscosities of basalt and andesite melts at high pressures (Kushiro, I. 1976)

Magmas—Temperature

Exsolution: Vapor exsolution in andesitic and bimodal volcanism and an estimate of depth to magma (Eichelberger, J. C. 1979)

Viscosity: Obsidian and its formation (Bakken, B. 1977)

Magmas—Viscosity

Pressure: Viscosity of basalt and andesite magmas at high pressures (Kushiro, I. 1976)

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Magnetic surveys *see under* Geophysical surveys; *see under* Geophysical surveys *under* Columbia Plateau; Pacific Coast

Magnetotelluric surveys *see under* Geophysical surveys

Mammalia—Carnivora

Quaternary: *Vulpes macrotis* (McGrew, J. C. 1979)

Mammalia—Faunal studies

Miocene: A new late Hemingfordian mammal fauna from the John Day Formation, Oregon, and its stratigraphic implications (Woodburne, M. O. 1977)

Mammalia—Perissodactyla

Cenozoic: Horse genealogy; the Oregon connection (Drake, E. T. 1978)

Miocene: Reevaluation of early Miocene North American *Moropus* (Perissodactyla, Chalicotheriidae, Schizotheriinae) (Coombs, M. C. 1978)

— *Tylocephalon*, a new genus of North American domed-skulled chalicotheres; Mammalia, Perissodactyla (Coombs, M. C. 1979)

Mammalia—Rodentia

Neogene: Hemphillian rodents from northern Oregon and their relationships to other rodent faunas in North America (Martin, J. E. 1979)

Man, fossil *see* Fossil man

Manganese—Geochemistry

Sediments: A biogeochemical study of manganese in the estuarine zone (Flegal, A. R., Jr. 1979)

Mantle *see also under* Tectonophysics *under* Pacific Coast; Pacific region

Mantle—Composition

Gases: Noble gases in the upper mantle (Basu, A. R. 1977)

Maps *see also under* Areal geology; Economic geology; Environmental geology; Geophysical surveys; Hydrogeology; Oceanography; Pe-

Maps

tology; Stratigraphy; *see also under* Areal geology *under* Western U.S.; *see also under* Environmental geology *under* Western U.S.; *see also under* General *under* Pacific Coast; *see also under* Geomorphology *under* Pacific Coast; *see also under* Geophysical surveys *under* Columbia Plateau; *see also under* Tectonophysics *under* Pacific Coast

Maps—Cartography

Associations: Annual report of the State Map Advisory Committee for Oregon 1979; January 1, 1979-December 31, 1979 (Beaulieu, John D. 1979)

Marine geology *see also* Oceanography

Mass movements *see under* Geomorphology

Mathematical geology *see also* Automatic data processing

Meetings *see* Symposia

Melange *see under* Interpretation *under* Structural analysis; *see under* Provenance *under* Sedimentation

Mercury *see also under* Economic geology; *see also under* Economic geology *under* Western U.S.

Mercury—Abundance

Water: Stream sediment geochemistry, northeastern Oregon (Anonymous. 1976)

Mesozoic *see also under* Geochronology; Stratigraphy; *see also under* Geochronology *under* Western U.S.; *see also under* Stratigraphy *under* Pacific Coast; Symposia; Western U.S.

Metals *see also* Arsenic; Economic geology; Lead; Manganese; *see also under* Economic geology *under* Symposia

Metamorphic rocks *see also* Igneous rocks; Metamorphism; Metasomatism

Metamorphic rocks—Amphibolites

Amphibolite: Rogue River island arc complex, western Jurassic belt, Klamath Mountains, Oregon (Garcia, M. O. 1976)

— The amphibolite of Briggs Creek; a tectonic slice of metamorphosed oceanic crust in southwestern Oregon? (Coleman, R. G. 1976)

Petrography: Geology of the gabbroic complex along the northern border of the Josephine Peridotite, Vulcan Peak area, southwestern Oregon (Loney, R. A. 1977)

Metamorphic rocks—Classification

Josephinite: Josephinite; a unique nickel-iron (Botto, R. I. 1976)

Metamorphic rocks—Composition

Ultramafic composition: A model for fluids in metamorphosed ultramafic rocks (Pfeifer, H. R. 1977)

Metamorphic rocks—Facies

Amphibolite facies: Contrasting metamorphic terrains of Siskiyou Mountains, Oregon-California (Ferns, M. L. 1978)

Greenschist facies: Contrasting metamorphic terrains of Siskiyou Mountains, Oregon-California (Ferns, M. L. 1978)

Metamorphic rocks—Genesis

Complexes: Structures of the Canyon Mountain (Oregon) ophiolite complex (Ave Lallemand, H. G. 1976)

Plate tectonics: Mesozoic tectonics of the western United States (Hamilton, W. B. 1978)

Metamorphic rocks—Geochemistry

Trace elements: Petrogenesis of spilite and keratophyre from a Permian and Triassic volcanic arc terrane, eastern Oregon and western Idaho, U.S.A. (Vallier, T. L. 1978)

Metamorphic rocks—Metaigneous rocks

Genesis: Emplacement of ultramafic rocks and metamorphism in the Marble Mountains area of the Klamath Mountains (Welsh, J. L. 1978)

Metagabbro: Complementary meta-gabbros and peridotites in the northern Klamath Mountains, U.S.A. (Kays, M. A. 1977)

— Textural banding in igneous rocks; an example from southwestern Oregon (Jorgenson, D. B. 1979)

Ophiolite: Geology and geochemistry of the Oregon Mountain area, southwestern Oregon and northern California (Vail, S. G. 1977)

Metamorphic rocks—Metasedimentary rocks

Facies: Petrographic and structural reconnaissance of the Franciscan Complex (Dothan/Otter Point) in the Dillard Block, Southwest Oregon (Worley, P. L. H. 1978)

Petrology: Pre-Tertiary stratigraphy in the Snake River canyon and adjacent Seven Devils and Wallowa Mountains, northeastern Oregon and western Idaho (Vallier, T. L. 1976)

Metamorphic rocks—Metavolcanic rocks

Geochemistry: Petrology of the Rogue and Galice formations, Klamath Mountains, Oregon; identification of a Jurassic island arc sequence (Garcia, M. O. 1979)

Lithostratigraphy: Mesozoic meta-volcanic sequences in the northern Klamath Mountains, southwestern Oregon (Johnson, M. G. 1977)

Maps: Preliminary geologic map of the metavolcanic rocks in part of the Canyonville, Days Creek, and Glendale quadrangles, Oregon (Johnson, M. G. 1979)

Petrography: Petrology and initial tectonic setting of Permian and Triassic volcanic rocks, northeastern Oregon and western Idaho (Batiza, R. 1976)

Volcanism: Petrology of the Rogue River area, Klamath Mountains, Oregon; problems in the identification of ancient volcanic arcs (Garcia, M. O. 1976)

Metamorphic rocks—Petrology

Lithostratigraphy: Geology of part of southern Morrow County, Northeast Oregon (Shorey, E. F. 1976)

Metamorphic rocks—Schists

Blueschist: Triassic blueschist from northern California and north-central Oregon (Hotz, P. E. 1977)

Greenstone: Alkaline pillowed greenstone, Greenhorn Mountains, Northeast Oregon (Mullen, E. D. 1979)

Mineral assemblages: Deformation and metamorphism of the schist of Condrey Mountain, Klamath Mountains, California and Oregon (Donato, M. M. 1979)

Metamorphism—Age

Absolute age: Triassic blueschist from northern California and north-central Oregon (Hotz, P. E. 1977)

Metamorphism—Evolution

Schists: Deformation and metamorphism of the schist of Condrey Mountain, Klamath Mountains, California and Oregon (Donato, M. M. 1979)

Tertiary: Tertiary evolution of Cordilleran metamorphic core complexes (Coney, P. J. 1979)

Metamorphism—Processes

Anatexis: Compositional layering in alpine peridotites; evidence for pressure solution creep in the mantle (Dick, H. J. B. 1979)

Recrystallization: Textural banding in igneous rocks; an example from southwestern Oregon (Jorgenson, D. B. 1979)

Metamorphism—Regional metamorphism

Mineral assemblages: Petrogenesis of spilite and keratophyre from a Permian and Triassic volcanic arc terrane, eastern Oregon and western Idaho, U.S.A. (Vallier, T. L. 1978)

Metamorphism—Retrograde metamorphism

Extent: Emplacement of ultramafic rocks and metamorphism in the Marble Mountains area of the Klamath Mountains (Welsh, J. L. 1978)

Metasomatic rocks—Serpentinite

Composition: Metallic mineralogy of serpentinites; implications for deep crustal magnetic anomalies (Leavell, D. N. 1978)

Geochemistry: Trace element abundances in josephinite and related rocks (Goettel, K. A. 1978)

Metasomatism—Materials

Igneous rocks: Formation of small dunite bodies by metasomatic transformation of harzburgite in the Canyon Mountain Ophiolite, Northeast Oregon (Dungan, M. A. 1977)

— Formation of small dunite bodies from harzburgite by metasomatic transformation in the Canyon Mountain ophiolite, Oregon (Dungan, M. A. 1976)

Metasomatism—Processes

Hydrothermal alteration: Diagenetic and hydrothermal alteration, and trace element distribution in tuffaceous sediments within the McDermitt Caldera, Nevada-Oregon (Rytuba, J. J. 1977)

— Geology and mineralization of the North Santiam mining district, Marion County, Oregon (Olson, J. P. 1978)

Mineral deposits, genesis

Serpentinization: Josephinite; a unique nickel-iron (Botto, R. I. 1976)

— The geology and distribution of josephinite in the Josephine Peridotite, Southwest Oregon (Leavell, D. N. 1979)

Zeolitization: Zeolite-clay mineral zonation of volcanoclastic sediments within the McDermitt Caldera complex of Nevada and Oregon (Glanzman, R. K. 1979)

Meteor craters *see also* Meteorites

Meteorites—Geochemistry

Iron meteorites: Josephinite; a terrestrial alloy with radiogenic xenon-129 and the noble gas imprint of iron meteorites (Downing, R. G. 1977)

Mineral deposits, genesis—Environment

Plate tectonics: The Klamath Mountains and Sierra Nevada Jurassic volcanic arc sequences, western U.S.A.; volcanogenic sulfide provinces (Kemp, W. R. 1976)

Mineral deposits, genesis—Gold

Mineralization: Paragenesis and geochemistry of the Granite gold district, Grant County, Oregon (Young, James Stanton. 1979)

— Paragenesis of gold veins in the Granite District, Grant County, Oregon (Young, J. Stanton. 1979)

— Quartzville mining district (Munts, Steven Rowe. 1978)

Mineral deposits, genesis—Metals

Massive deposits: Geochemistry of a volcanogenic massive sulfide deposit, Blue Creek District, Oregon (Cunningham, C. T. 1978)

Mineralization: Geology and mineral deposits of the Bohemia mining district, Lane County, Oregon (Schaubs, Michael Paul. 1978)

Processes: Nazca Plate studied (Dasch, E. Julius. 1976)

Mineral deposits, genesis—Processes

Epithermal processes: Geology of the McDermitt Mine area, Humboldt County, Nevada (Speer, W. E. 1977)

Hydrothermal processes: Diagenetic and hydrothermal alteration, and trace element distribution in tuffaceous sediments within the McDermitt Caldera, Nevada-Oregon (Rytuba, J. J. 1977)

— Geology, petrology, and mineralization of the Paisley Mountains plutonic complex, Lake County, Oregon (Hammit, J. W. 1976)

Igneous processes: Mineral deposits of the Snake River canyon area, western Idaho and eastern Oregon (Field, C. W. 1976)

Volcanism: A model for the genesis of uranium/lithophile element deposits related to rhyolitic volcanism (Sheridan, M. F. 1979)

— Relation of mercury, uranium, and lithium deposits to the McDermitt caldera complex, Nevada-Oregon (Rytuba, J. J. 1978)

- Some uranium deposits associated with volcanic rocks, western United States (Waters, A. C. 1978)
- Volcanogenic massive sulfide deposits in the northern Klamath Mountains, California and Oregon (Koski, R. A. 1979)
- Weathering*: The mineralogical and chemical development of the Nickel Mountain (Oregon) nickel laterite deposit (Durst, T. L. 1976)

Mineral deposits, genesis—Uranium

- Mineralization*: Structural and petrologic associations of uranium deposits within the McDermitt caldera complex, Nevada-Oregon (Rytuba, J. J. 1979)
- Volcanism*: Uranium in volcanic environments in the Great Basin (Files, F. G. 1978)

Mineral exploration—Geochemical methods

- Aureoles*: Alteration aureoles in McDermitt caldera in Nevada and Oregon (Rytuba, J. J. 1979)
- Stream sediments*: Hydrogeochemical and stream-sediment reconnaissance (HSSR) survey of the National Uranium Resource Evaluation (NURE) Program; western United States; quarterly progress report, July through September 1977 (Lawrence Livermore Laboratory, 1978)
- Surveys*: Geochemical anomalies associated with mercury deposits in Nevada and Oregon (Rytuba, J. J. 1978)

Mineral exploration—Geophysical methods

- Radioactivity methods*: Uranium content of tuffaceous sediments and opalite mercury deposits within the McDermitt Caldera, Oregon-Nevada (Rytuba, J. J. 1977)
- Uranium*: Aerial gamma ray and magnetic survey, Idaho Project, Hailey, Idaho Falls, Elk City quadrangles of Idaho/Montana and Boise Quadrangle, Oregon/Idaho; final report (EG&G Geometrics, 1979)

Mineral exploration—Methods

- Maps*: Mineral exploration potential maps (Anonymous, 1978)

Mineral exploration—Remote sensing

- Landsat*: Satellite remote sensing of the McDermitt Caldera, Nevada-Oregon (Raynolds, R. G. H. 1976)
- Multispectral analysis*: Visible and near-infrared spectra of rocks from chromium-rich areas (Hunt, G. R. 1979)
- Spectral analysis*: Visible and near-infrared spectra of rocks from a chromite-rich area in Oregon (Hunt, G. R. 1979)

Mineral inclusions see under Inclusions

Mineral prospecting see Mineral exploration

Mineral resources see also under Economic geology

Mineralogy

- Framework silicates*: A pleochroic variety of gem labradorite from the Rabbit Hills area, Lake County, Oregon (Carlson, E. H. 1976)
- Beach treasures of Whiskey Run (Heflin, E. 1979)
- Chabazite in siliceous tuffs of a Pliocene lacustrine deposit near Durkee, Baker County, Oregon (Gude, A. J., III. 1976)
- Chabazite in siliceous tuffs of a Pliocene lacustrine deposit near Durkee, Baker County, Oregon (Gude, A. J., III. 1978)
- Characterization of an offretite-levynite intergrowth from Beech Creek, Oregon, by adsorption and electron diffraction (Bennett, J. M. 1976)
- Dachiardite-bearing zeolite assemblages in the Pacific Northwest (Wise, W. S. 1976)
- Levynite in the Wallows (Howard, D. G. 1978)
- The structure of slawsonite, a strontium analog of paracelsian (Griffen, D. T. 1977)
- Native elements and alloys*: Geology, petrography and origin of josephinite (Weathers, M. S. 1976)
- Josephinite; a unique nickel-iron (Botto, R. I. 1976)
- Josephinite; a unique nickel-iron (Botto, R. I. 1976)
- Josephinite; crystal structures and phase relations of the metals (Bassett, W. A. 1979)
- Josephinite; specimens from the Earth's core? (Dick, H. J. B. 1976)
- Mantle-derived iron-nickel alloys (Weathers, M. S. 1978)
- Origin and mineral chemistry of "josephinite" (Thornber, C. R. 1976)
- Origin of josephinite (Bird, J. M. 1979)
- The geology and distribution of josephinite in the Josephine Peridotite, Southwest Oregon (Leavell, D. N. 1979)
- Widmanstaetten patterns in josephinite (Bird, J. M. 1978)
- Orthosilicates*: Zircons of Summit Rock, Oregon (Huneke, J. C. 1978)
- Ring silicates*: Osumilite; channel ions, water and biaxiality (Goldman, D. S. 1977)
- Minerals see also* Crystal chemistry; Crystal growth; Crystal structure
- Minerals—Chain silicates, amphibole group**
- Amphibole*: Amphibole stability in a differentiated calc-alkaline magma chamber; an experimental investigation (Ritchey, J. L. 1978)
- Minerals—Framework silicates**
- Slawsonite*: The structure of slawsonite, a strontium analog of paracelsian (Griffen, D. T. 1977)
- Minerals—Framework silicates, feldspar group**
- Albite*: Major element geochemistry and origin of albite granite near Sparta, Oregon (Almy, R. 1978)
- Labradorite*: A pleochroic variety of gem labradorite from the Rabbit Hills area, Lake County, Oregon (Carlson, E. H. 1976)

Minerals—Framework silicates, silica minerals

- Agate*: Beach treasures of Whiskey Run (Heflin, E. 1979)
- Inclusions in agate and their origins and significance (Pabian, R. K. 1978)

Minerals—Framework silicates, zeolite group

- Chabazite*: Chabazite in siliceous tuffs of a Pliocene lacustrine deposit near Durkee, Baker County, Oregon (Gude, A. J., III. 1976)
- Chabazite in siliceous tuffs of a Pliocene lacustrine deposit near Durkee, Baker County, Oregon (Gude, A. J., III. 1978)
- Dachiardite*: Dachiardite-bearing zeolite assemblages in the Pacific Northwest (Wise, W. S. 1976)
- Levynite*: Levynite in the Wallows (Howard, D. G. 1978)
- Offretite*: Characterization of an offretite-levynite intergrowth from Beech Creek, Oregon, by adsorption and electron diffraction (Bennett, J. M. 1976)
- The chemical compositions and origin of the zeolites offretite, erionite, and levynite (Wise, W. S. 1976)
- Thomsonite*: Habits and crystal forms of thomsonite (Wise, W. S. 1977)
- Habits and crystal forms of thomsonite (Wise, W. S. 1977)

Minerals—Miscellaneous minerals

- Composition*: Partial melting in the Josephine Peridotite; I. The effect on mineral composition and its consequence for geobarometry and geothermometry (Dick, H. J. B. 1977)

Minerals—Native elements and alloys

- Josephinite*: Anomalous noble gases in josephinite and associated rocks? (Bernatowicz, T. J. 1979)
- Excess ^3He and ^{21}Ne in josephinite (Bochsler, P. 1978)
- Geology, petrography and origin of josephinite (Weathers, M. S. 1976)
- Josephinite; a terrestrial alloy with radiogenic xenon-129 and the noble gas imprint of iron meteorites (Downing, R. G. 1977)
- Josephinite; a unique nickel-iron (Botto, R. I. 1976)
- Josephinite; a unique nickel-iron (Botto, R. I. 1976)
- Josephinite; crystal structures and phase relations of the metals (Bassett, W. A. 1979)
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- Origin and mineral chemistry of "josephinite" (Thornber, C. R. 1976)
- Origin of josephinite (Bird, J. M. 1979)
- Rare gases and hydrogen in josephinite (Craig, H. 1979)
- The geology and distribution of josephinite in the Josephine Peridotite, Southwest Oregon (Leavell, D. N. 1979)

- Trace element abundances in josephinite and related rocks (Goettel, K. A. 1978)
- Widmanstaetten patterns in josephinite (Bird, J. M. 1978)
- Magnetic properties*: Metallic mineralogy of serpentinites; implications for deep crustal magnetic anomalies (Leavell, D. N. 1978)

Minerals—Occurrence

- Pyroclastics*: Zeolite-clay mineral zonation of volcanoclastic sediments within the McDermitt Caldera complex of Nevada and Oregon (Glanzman, R. K. 1979)

Minerals—Orthosilicates

- Zircon*: Zircons of Summit Rock, Oregon (Huneke, J. C. 1978)

Minerals—Orthosilicates, olivine group

- Olivine*: Electron-microprobe analyses of chromite and olivine from alpine ultramafic complexes (Bird, M. L. 1977)

Minerals—Oxides

- Chromite*: Electron-microprobe analyses of chromite and olivine from alpine ultramafic complexes (Bird, M. L. 1977)

Minerals—Ring silicates

- Osumilite*: Osumilite; channel ions, water and biaxiality (Goldman, D. S. 1977)
- The site distribution of iron and anomalous biaxiality in osumilite (Goldman, D. S. 1978)

Minerals—Sheet silicates

- Biotite*: Age of quartz diorite at Bishop Spring in northwestern Oregon (Poole, F. G. 1978)

Minerals—Sheet silicates, clay minerals

- Hectorite*: New occurrences of the lithium-rich smectite, hectorite (Glanzman, R. K. 1978)

Minerals—Silicates

- Authigenic minerals*: Diagenetic alteration and formation of authigenic minerals in the Miocene "Rome Beds", Southeast Oregon (Campion, K. M. 1979)

Minerals—Sulfides

- Wilburite*: Josephinite; a unique nickel-iron (Botto, R. I. 1976)

Mining geology—Methods

- Recovery*: Mining in the Oregon Cascades (Mason, R. S. 1978)

Miocene see also under Stratigraphy; see also under Stratigraphy under Columbia Plateau; Pacific Coast

Mollusca—Biochemistry

- Amino acids*: Role of thermal history uncertainties in amino-acid racemization age estimation of geological and archeological samples (Wehmiller, J. F. 1979)

Mollusca—Biostratigraphy

- Cenozoic*: Cenozoic molluscan stages of Oregon and Washington (Armentrout, J. M. 1977)
- Late Cenozoic marine invertebrates from Northwest California and Southwest Oregon (Roth, B. 1979)
- Progress report on Cenozoic correlations, west coast North America (Armentrout, J. M. 1978)
- Jurassic*: Biostratigraphy of the Snowshoe Formation (Jurassic) in the Ize area, Grant County, Oregon (Smith, P. L. 1976)

- Biostratigraphy of the type Weber Member, Snowshoe Formation, Grant County, Oregon (Taylor, D. G. 1977)
- Miocene:** Neogene molluscan stages of Oregon and Washington (Addicott, W. O. 1976)
- New Miocene formation at Coos Bay, Oregon (Armentrout, J. M. 1978)
- Neogene:** Pacific Coast Neogene correlations; a progress report (Armentrout, J. M. 1979)
- Tertiary:** Neogene molluscan stages of Oregon and Washington (Addicott, W. O. 1976)
- Significance of pectinids in Tertiary biochronology of the Pacific Northwest states (Addicott, W. O. 1977)
- Mollusca—Bivalvia**
- Miocene:** Marine fossils on Oregon beaches (Heflin, E. 1979)
- Quaternary:** Amino-acid racemization dating of Quaternary mollusks, Pacific Coast United States (Wehmiller, J. F. 1978)
- Mollusca—Cephalopoda**
- Cretaceous:** First occurrence, systematics, and functional morphology of Nipponites (Cretaceous *Lytoceras*) from the Americas (Ward, P. D. 1977)
- Mollusca—Faunal studies**
- Pleistocene:** Community succession of Pioneer Terrace molluscan fauna, Cape Blanco, Oregon (Armentrout, J. M. 1978)
- Mollusca—Gastropoda**
- Cenozoic:** Molluscan paleoecology and biostratigraphy of Cenozoic deep-water facies in the Pacific Northwest (Hickman, C. S. 1977)
- Pleurotomaria (Archaeogastropoda) in the Eocene of the northeastern Pacific; a review of Cenozoic biogeography and ecology of the genus (Hickman, C. S. 1976)
- Miocene:** Big Seffy (Stafford, W. L. 1979)
- Tertiary:** Bathyal gastropods of the family Turridae in the early Oligocene Keasey Formation in Oregon, with a review of some deep-water genera in the Paleogene of the eastern Pacific (Hickman, C. S. 1976)
- Mud volcanoes** *see also* Volcanology
- Native elements and alloys** *see under* Minerals
- Natural gas** *see also under* Economic geology
- Neogene** *see also under* Geochronology; Stratigraphy; *see also under* Stratigraphy *under* Pacific Coast; Pacific region; Western U.S.
- Neon—Isotopes**
- Ne-21:** Excess ^3He and ^{21}Ne in josephinite (Bochsler, P. 1978)
- Ratios:** Noble gases in the upper mantle (Basu, A. R. 1977)
- Neotectonics** *see also under* Structural geology; *see also under* Structural geology *under* Basin and Range Province; Columbia Plateau; Great Basin; Pacific Coast
- Nickel** *see also under* Economic geology
- Nickel—Abundance**
- Water:** Stream sediment geochemistry, northeastern Oregon (Anonymous. 1976)
- Nickel—Geochemistry**
- Igneous rocks:** Basalts of Oregon (U.S.A.) and their geotectonic environment; I, Petrochemistry of Tertiary basalts of the Oregon Coast Range (Loeschke, J. 1979)
- Nitrogen—Geochemistry**
- Cycles:** Nitrous oxide and methane in Alsea Bay, Oregon (de Angelis, M. A. 1979)
- Sediments:** Sediment characteristics and the trophic status of four Oregon lakes (Davis, G. E. 1976)
- Noble gases** *see also* Argon; Helium; Krypton; Neon; Xenon
- Noble gases—Abundance**
- Josephinite:** Josephinite; a terrestrial alloy with radiogenic xenon-129 and the noble gas imprint of iron meteorites (Downing, R. G. 1977)
- Noble gases—Geochemistry**
- Upper mantle:** Noble gases in the upper mantle (Basu, A. R. 1977)
- Noble gases—Isotopes**
- Abundance:** Anomalous noble gases in josephinite and associated rocks? (Bernatowicz, T. J. 1979)
- Origin of josephinite (Bird, J. M. 1979)
- Ratios:** Rare gases and hydrogen in josephinite (Craig, H. 1979)
- North America** *see also* Rocky Mountains
- Nuclear facilities** *see also under* Engineering geology
- Ocean circulation** *see also under* Oceanography
- Ocean floors** *see also under* Oceanography *under* Pacific Coast
- Ocean waves** *see also under* Oceanography *under* Pacific Coast
- Oceanography**
- Continental shelf:** A diagnostic model of continental shelf circulation (Peng, C. Y. 1976)
- Bathymetric map of Pacific Coast; Columbia River to Cape Ferrello, Oregon (Schumacher, G. M. 1977)
- Bottom nepheloid layers and bottom mixed layers observed on the continental shelf off Oregon (Pak, H. J. 1977)
- Optical evidence of sediment resuspension; Oregon continental shelf (Chriss, T. M. 1977)
- Continental slope:** Tectonic consolidation of deep-sea sediments; preliminary results of laboratory simulation (Carson, B. 1976)
- Maps:** Bathymetric map of Pacific Coast; Columbia River to Cape Ferrello, Oregon (Schumacher, G. M. 1977)
- Ocean circulation:** A diagnostic model of continental shelf circulation (Peng, C. Y. 1976)
- The viscous sublayer at the sea floor (Caldwell, D. R. 1979)
- Sedimentation:** Depositional environments within high-energy tidally dominated embayments along Pacific margin, United States (Rappeport, M. L. 1980)
- Suspended material over the central Oregon continental shelf in May 1974; I, Concentrations of organic and inorganic components (McCave, I. N. 1979)
- Sediments:** Tectonic consolidation of deep-sea sediments; preliminary results of laboratory simulation (Carson, B. 1976)
- Oil and gas fields** *see also under* Economic geology *under* Pacific Coast
- Oligocene** *see also under* Geochronology; Stratigraphy
- Ophiolite** *see under* Metamorphic rocks; *see under* Ultramafic family *under* Igneous rocks
- Ordovician** *see also under* Stratigraphy *under* Western U.S.
- Organic materials—Amino acids**
- Alteration:** Role of thermal history uncertainties in amino-acid racemization age estimation of geological and archeological samples (Wehmiller, J. F. 1979)
- Experimental studies:** Amino-acid racemization dating of Quaternary mollusks, Pacific Coast United States (Wehmiller, J. F. 1978)
- Organic materials—Analysis**
- Angiosperms:** Flavonoid and other chemical constituents of fossil Miocene *Celtis* and *Ulmus* (Succor Creek flora) (Giannasi, D. E. 1977)
- Organic materials—Experimental studies**
- Flavonoids:** Geochemistry and thermolysis of flavonoids (Niklas, K. J. 1977)
- Organic materials—Geochemistry**
- Organic carbon:** Transport of dissolved organic carbon in streams of differing physiographic characteristics (Moeller, J. R. 1979)
- Organic materials—Hydrocarbons**
- Methane:** Nitrous oxide and methane in Alsea Bay, Oregon (de Angelis, M. A. 1979)
- Organic materials—Identification**
- Flavonoids:** Flavonoids and other chemical constituents of fossil Miocene *Zelkova* (Ulmaceae) (Niklas, K. J. 1977)
- Orogeny** *see also* Geosynclines
- Orogeny—Absolute age**
- Extent:** Middle Devonian orogeny and biogeographical relations in areas along the North American Pacific rim (Boucot, A. J. 1977)
- Orogeny—Extent**
- Cordilleran Orogeny:** Cordilleran tectonic profiles, western USA (Maxwell, J. C. 1979)
- Orthosilicates** *see under* Minerals
- Oxides** *see under* Minerals
- Oxygen—Geochemistry**
- Water:** Steady-state dissolved oxygen model of the Willamette River, Oregon (McKenzie, S. W. 1979)
- Oxygen—Isotopes**
- O-18/O-16:** Direct marine-continental correlation; 150,000-year oxygen isotope-pollen record from the North Pacific (Heusser, L. E. 1979)
- Geochemical studies of rocks, water, and gases at Mt. Hood, Oregon (Wollenberg, Harold A. 1979)
- Pacific Coast—Areal geology**
- Guidebook:** Geological excursions in the Pacific Northwest (Brown, E. H. 1977)
- Regional:** Pacific Coast region (Anonymous. 1978)
- Pacific Coast—Economic geology**
- Energy sources:** Northwest Energy Policy Project energy supply and environmental impacts, study module III-A final report; conventional energy sources (McFadden, J. 1977)
- Northwest Energy Policy Project; institutional constraints and opportunities study module V, report on tasks 4, 5, 6, & 7, final report 1977 (Balmer, D. G. 1977)
- Geothermal energy:** A comparison of electromagnetic and magnetotelluric surveys (Morrison, H. F. 1979)
- Characteristics of geothermal reservoirs associated with composite cones as estimated by simple models of eruption dynamics and petrogeneses; Newberry and Mt. Jefferson as examples (Goles, G. G. 1978)
- Exploration for geothermal energy in the Pacific Northwest (Pilkington, H. D. 1978)
- Pacific Northwest geothermal; 1976 review, 1977 outlook (Youngquist, W. 1977)
- Research and development toward abundant and economical geothermal energy in the Northwest (Kunze, J. F. 1978)
- Gravel:** Geology of the continental margin near Florence, Oregon (Couch, Richard. 1979)
- Offshore sand and gravel resources of the Pacific Northwest (Moore, G. W. 1979)
- Offshore sand and gravel resources of the Pacific Northwest (Moore, G. W. 1979)
- Industrial minerals:** Chabazite in siliceous tuffs of a Pliocene lacustrine deposit near Durkee, Baker County, Oregon (Gude, A. J., III. 1978)
- Iron:** Volcanogenic massive sulfide deposits in the northern Klamath Mountains, California and Oregon (Koski, R. A. 1979)
- Oil and gas fields:** Mist gas field, Columbia County, Oregon (Brewer, W. G. 1980)
- Petroleum:** A synthesis of OCS well information, offshore central and northern California, Oregon, and Washington (Ziegler, D. L. 1978)
- California to Washington (Anonymous. 1978)
- Developments in West Coast area in 1977 (Cassell, J. K. 1978)
- Interim report on petroleum resources potential and geologic hazards in the outer continental shelf; Oregon and Washington Tertiary province (Snively, P. D., Jr. 1977)
- Sand:** Offshore sand and gravel resources of the Pacific Northwest (Moore, G. W. 1979)
- Pacific Coast—Engineering geology**
- Geologic hazards:** Petroleum resources potential and geologic hazards of the Oregon-Washington outer continental shelf (Snively, P. D., Jr. 1978)

Waste disposal: Stability of dredged material deposited seaward of the Columbia River mouth (Sternberg, R. W. 1979)

Pacific Coast—Environmental geology

Ecology: Mountains of the Pacific Northwest, U.S.A.; a study in contrasts (Price, L. W. 1978)

Geologic hazards: A synoptic approach for analyzing erosion as a guide to land-use planning (Brown, W. M., III. 1979)

— Environmental geology of the Kellogg Creek - Mt. Scott Creek and lower Clackamas River drainage areas, northwestern Clackamas County, Oregon (Brunengo, M. J. 1978)

— Interim report on petroleum resources potential and geologic hazards in the outer continental shelf; Oregon and Washington Tertiary province (Snively, P. D., Jr. 1977)

Land use: Land use and land cover research and analysis (Davis, D. W. 1978)

— Pacific Northwest Demonstration Project (Hood, D. R. 1978)

— Pacific Northwest Regional Commission (Hood, D. R. 1979)

Pollution: Mathematical simulation of sediment and radionuclide transport in the Columbia River (Onishi, Y. 1977)

Pacific Coast—General

Maps: Oblique map of the Pacific Coast of North America (Alpha, T. R. 1980)

Pacific Coast—Geochemistry

Isotopes: Geochronology on Cascadia abyssal plain using high resolution gamma ray spectrometry (Cutshall, N. H. 1978)

— Regional variations in the lead isotopic characteristics of late Cenozoic basalts from the southwestern United States (Everson, J. E. 1979)

Trace elements: Geochemical studies of rocks, water, and gases at Mt. Hood, Oregon (Wollenberg, Harold A. 1979)

Pacific Coast—Geochronology

Holocene: Bracketing dates for two ash falls from Mount Mazama (Mack, R. N. 1979)

— Comparison of relative age dating (RAD) data from eastern Sierra Nevada cirque deposits with those from the tephrochronologically age controlled deposits of the Wallowa Mountains, Oregon (Burke, R. M. 1978)

— Corrections for marine shell radiocarbon dates (Robinson, S. W. 1979)

Quaternary: Amino-acid racemization dating of Quaternary mollusks, Pacific Coast United States (Wehmiller, J. F. 1978)

— Role of thermal history uncertainties in amino-acid racemization age estimation of geological and archeological samples (Wehmiller, J. F. 1979)

Pacific Coast—Geomorphology

Maps: Pictorial landform map: state of Washington and adjacent parts of Oregon, Idaho, and British Columbia (Molenaar, D. 1976)

Symposia: The fortieth annual meeting of the association of Pacific Coast Geographers (Anonymous. 1978)

Weathering: Comparison of relative age dating (RAD) data from eastern Sierra Nevada cirque deposits with those from the tephrochronologically age controlled deposits of the Wallowa Mountains, Oregon (Burke, R. M. 1978)

Pacific Coast—Geophysical surveys

Gravity surveys: Gravity anomalies of Mt. Hood and the South central Cascade Range of Oregon (Couch, Richard W. 1979)

Heat flow: A multidisciplinary investigation of the Mt. Hood Volcano (Williams, D. L. 1979)

— Heat flow of the Mt. Hood Volcano, Oregon (Steele, John L. 1979)

— Heat flow of the Oregon Cascade Range (Blackwell, David D. 1979)

Infrared surveys: Structural and heat-flow implications of infrared anomalies at Mt. Hood, Oregon, 1972-1977 (Friedman, J. D. 1979)

Magnetic surveys: Regional tectonic and thermal model of the central Cascades, Oregon from magnetic data (Connard, G. 1979)

Remote sensing: An investigation of the utility of Landsat 2 MSS data to the fire-danger rating area, and forest fuel analysis with Crater Lake National Park, Oregon (Rabii, H. A. 1979)

— Pacific Northwest Regional Commission (Hood, D. R. 1979)

— Pacific Northwest Resources Inventory Demonstration (Nichols, J. D. 1976)

— Tectonic analysis of SLAR mosaic of Northwest Cascade Range and adjacent lowlands, Washington (Lawrence, Robert D. 1978)

Seismic surveys: Seismic evidence for the structure and Cenozoic tectonics of the Pacific Coast States (Hill, D. P. 1978)

— Seismic studies at the Mt. Hood Volcano, northern Cascade Range, Oregon (Green, S. M. 1979)

— Upper crustal structure of the Mt. Hood, Oregon, region as revealed by time term analysis (Healy, J. H. 1979)

Surveys: Magnetotelluric and controlled-source electromagnetic studies at Mt. Hood, Oregon (Goldstein, N. E. 1979)

Pacific Coast—Hydrogeology

Ground water: Ground-water levels in the United States, 1971-74; Northwestern States (U. S. Geological Survey. 1977)

Hydrology: Mechanics of the turbulent boundary layer over sand waves in the Columbia River (McLean, S. R. 1976)

— Pacific Coast (Anonymous. 1978)

— Rainfall-runoff data for selected basins, Portland, Oregon, and Vancouver, Washington, 1973-77 (Laenen, A. 1978)

Springs: Geothermometry applied to hot springs in western United States (Nehring, N. L. 1979)

Thermal waters: Geochemical studies of rocks, water, and gases at Mt. Hood, Oregon (Wollenberg, Harold A. 1979)

— Hydrogeologic appraisal of the Klamath Falls geothermal area, Oregon (Sammel, E. A. 1980)

Pacific Coast—Mineralogy

Framework silicates: Habits and crystal forms of thomsonite (Wise, W. S. 1977)

Pacific Coast—Oceanography

Ocean floors: Fan Valleys, channels, and depositional lobes on modern submarine fans; characteristics for recognition of sandy turbidite environments (Normark, W. R. 1978)

Ocean waves: Seasonal variation in beach erosion and sedimentation on the Oregon coast (Fox, W. T. 1978)

Sedimentation: Depositional environments within high-energy tidally dominated embayments along Pacific margin, United States (Rappeport, M. L. 1980)

Pacific Coast—Paleontology

Annelida: An emendation of the genus *Sathodrilus* Holt 1968 (Annelida: Branchiobdellida), with the description of four new species from the Pacific drainage of North America (Holt, P. C. 1977)

Arthropoda: Fossil crabs of the Pacific Northwest (Douglass, D. 1978)

Bryozoa: Pacific Coast *Celleporina* Gray (1848); fossil and recent (Morris, P. A. 1979)

Echinodermata: Pacific Coast Cenozoic middle and high latitude Echinoidea (Durham, J. W. 1977)

Ecology: Identification and interpretation of communities at the generic level (Parrish, J. T. 1978)

Invertebrata: Pacific seashores; a guide to intertidal ecology (Carefoot, T. 1977)

Pacific Coast—Petrology

Igneous rocks: Crystal clots, amphibole fractionation, and the evolution of calc-alkaline magmas (Garcia, M. O. 1977)

— Ophiolites, seismic velocities and oceanic crustal structure (Christensen, N. I. 1978)

— Volcanoes and plutons in magmatic arcs (Eichelberger, J. C. 1979)

Intrusions: An early Mesozoic alkaline magmatic belt in western North America (Miller, C. F. 1978)

Magmas: Crystal clots, amphibole fractionation and the evolution of calc-alkaline magmas (Garcia, M. O. 1979)

— Vapor exsolution in andesitic and bimodal volcanism and an estimate of depth to magma (Eichelberger, J. C. 1979)

Metamorphic rocks: Geology and geochemistry of the Oregon Mountain area, southwestern Oregon and northern California (Vail, S. G. 1977)

Metamorphism: Tertiary evolution of Cordilleran metamorphic core complexes (Coney, P. J. 1979)

Volcanology: Composite cone growth modeled after Broken Top, a dissected high Cascade volcano (Crowe, B. 1977)

Pacific Coast—Sedimentary petrology

Sedimentation: Beach profiles obtained with an amphibious DUKW on the Oregon and Washington coasts (Komar, P. D. 1977)

— Mesozoic forearc basin in central Oregon (Dickinson, W. R. 1979)

— Sedimentology of two progradational submarine-channel deposits on an active continental margin, Cretaceous, southwestern Oregon (Bourgeois, J. 1979)

Pacific Coast—Seismology

Crust: Ophiolites, seismic velocities and oceanic crustal structure (Christensen, N. I. 1978)

— Seismic studies at the Mt. Hood Volcano, northern Cascade Range, Oregon (Green, S. M. 1979)

— Strain accumulation rates in the western United States between 1970 and 1978 (Prescott, W. H. 1979)

— Upper crustal structure of the Mt. Hood, Oregon, region as revealed by time term analysis (Healy, J. H. 1979)

Earthquakes: Attenuation patterns in the Pacific Northwest based on intensity data and the location of the 1872 North Cascades earthquake (Malone, S. D. 1979)

— Horizontal particle velocity and its relation to magnitude in the western United States (Espinosa, A. F. 1979)

Seismicity: A seismicity study of the Pacific Northwest region of the United States, November 1961 - August 1965 (Racine, D. 1979)

Pacific Coast—Stratigraphy

Cenozoic: Cenozoic paleogeography of the western United States (Armentrout, J. M. 1979)

— Late Cenozoic marine invertebrates from Northwest California and Southwest Oregon (Roth, B. 1979)

— Molluscan paleoecology and biostratigraphy of Cenozoic deep-water facies in the Pacific Northwest (Hickman, C. S. 1977)

— Pacific Coast Cenozoic chronologic framework (Armentrout, J. M. 1979)

— The marine Cenozoic of the Pacific Coast states; an overview of the growth and development of biostratigraphic research (Adicott, W. O. 1979)

Changes of level: Late Pleistocene and Holocene zoogeography, Pacific Northwest coast (Kennedy, G. L. 1979)

- Devonian:** Status of Devonian studies in western and Arctic North America (Johnson, J. G. 1977)
- Eocene:** Paleoecologic evaluation of late Eocene zonations of West Coast (McDougall, K. 1979)
- Paleoecological evaluation of late Eocene biostratigraphic zonations on the West Coast (McDougall, K. 1979)
- Mesozoic:** Mesozoic paleogeography of the western United States (Howell, D. G. 1978)
- Miocene:** The age of the "Pilot Rock Flora", Umatilla County, Oregon (Elemendorf, J. 1978)
- Neogene:** Pacific Coast Neogene correlations; a progress report (Armentrout, J. M. 1979)
- Paleogene:** Late Eocene and Oligocene benthonic foraminiferal correlations between California and the Pacific Northwest (Tipton, A. 1977)
- Pleistocene:** Stratigraphy and land use of the post-Diamond Hill Paleosol, western Oregon (Parsons, R. B. 1979)
- Quaternary:** Direct marine-continental correlation; 150,000-year oxygen isotope-pollen record from the North Pacific (Heusser, L. E. 1979)
- Use of Neoglobobulimina pachyderma (Ehrenberg) coiling ratio curves for chronostratigraphic correlations of Quaternary marine sediments along the West Coast (Kilbourne, R. T. 1979)
- Tertiary:** Correlation of benthic and planktic microfossil chronologies of the Pacific Coast (Poore, R. Z. 1979)
- Paleomagnetism of the middle Tertiary Clarno Formation, North-central Oregon; constraint on models for tectonic rotation (Beck, M. E., Jr. 1978)
- Significance of pectinids in Tertiary biochronology of the Pacific Northwest states (Addicott, W. O. 1977)
- Pacific Coast—Structural geology**
- Geosynclines:** Mesozoic construction of the Cordilleran "collage", central British Columbia to central California (Davis, G. A. 1978)
- Neotectonics:** Late Cenozoic tectonic evolution of the western United States (Livaccari, R. F. 1979)
- Tectonics:** A tectonic model for evolution of the Cascade Range (Hammond, Paul E. 1979)
- Cordilleran tectonic profiles, western USA (Maxwell, J. C. 1979)
- Evolution of the Eocene continental margin of western Oregon and Washington (Snively, P. D., Jr. 1977)
- Pacific Coast—Tectonophysics**
- Crust:** Heat flow of the Oregon Cascade Range (Blackwell, David D. 1979)
- Regional tectonic and thermal model of the central Cascades, Oregon from magnetic data (Connard, G. 1979)
- Seismic evidence for the structure and Cenozoic tectonics of the Pacific Coast States (Hill, D. P. 1978)
- Heat flow:** Regional magnetic variation profiling using the method of derivatives (Faynberg, E. B. 1976)
- Isostasy:** Compensation of oceanic topography; an application of the response function technique to the Surveyor area (McNutt, M. 1979)
- Mantle:** Regional magnetic variation profiling using the method of derivatives (Faynberg, E. B. 1976)
- Maps:** Base map for geoscience studies of the Juan de Fuca Plate; progress report (Rogers, G. C. 1978)
- Tectono-stratigraphic terrane map of western Baja California, western California, and Southwest Oregon (Blake, M. C., Jr. 1979)
- Plate tectonics:** An Eocene hotspot in the Pacific Northwest? (Duncan, R. A. 1977)
- Cenozoic plate tectonic setting of the Cordilleran region in the United States (Dickinson, W. R. 1979)
- Crustal structure near the Juan de Fuca and Explorer plate boundary from seismic refraction data (Au, D. 1979)
- Development of spaced cleavage in deep-sea mudstone; an initial response to subduction (Berglund, P. L. 1978)
- Early Tertiary rifting in western Oregon-Washington (McWilliams, R. G. 1978)
- Emplacement of ultramafic rocks and metamorphism in the Marble Mountains area of the Klamath Mountains (Welsh, J. L. 1978)
- Geologic cross section of the central Oregon continental margin (Snively, P. D., Jr. 1980)
- Geology and geochemistry of the Oregon Mountain area, southwestern Oregon and northern California (Vail, S. G. 1977)
- Has the North Pacific spreading center been subducted beneath Oregon, Washington and British Columbia? (Farrar, E. 1979)
- Interpretation of the Cenozoic geologic history, central Oregon continental margin; cross-section summary (Snively, P. D., Jr. 1980)
- Intracontinental plate boundary east of Cape Mendocino, California (Dott, R. H., Jr. 1979)
- Jurassic ophiolitic rocks in the Klamath Mountains, S.W. Oregon and implications for pre-Nevadan paleogeography (Vail, Scott G. 1977)
- Late Mesozoic tectonic history of northern California and southwestern Oregon (Jones, D. L. 1978)
- Mesozoic construction of Cordilleran "collage," central British Columbia to central California (Davis, G. A. 1978)
- Mesozoic paleogeography and paleotectonics, Suplee-Izee and Aldrich Mountains inlier, central Oregon (Dickinson, W. R. 1978)
- Microplate tectonics of Alaska; significance for the Mesozoic history of the Pacific Coast of North America (Jones, D. L. 1978)
- Paleogene tectonic evolution of the North American Cordillera from 40° to 56° north (Ewing, T. E. 1979)
- Paleomagnetic evidence for tectonic rotation of the Oregon Coast Range (Simpson, R. W., Jr. 1977)
- Paleomagnetic evidence for tectonic rotation of the Oregon Coast Range (Simpson, R. W., Jr. 1977)
- Plate tectonics of the western United States (Hamilton, W. B. 1979)
- Preliminary paleomagnetic results from the southern Cascade Range of southwestern Washington (Bates, R. G. 1979)
- Ridge subduction, exduction, and the mechanism of uplift blueschists (Dixon, J. M. 1978)
- Rotations in Oregon (Cox, A. 1979)
- Sonobuoy array measurements of active faulting on the Gorda Ridge (Jones, P. R. 1978)
- Subduction, accretion, and batholith emplacement (Gastil, R. G. 1978)
- Tectonic rotation of Oligocene intrusive rocks in the Coast Range of Oregon; a constant rate of rotation for the period 50-30 m.y. B.P. (Plumley, P. W. 1977)
- Tectonic rotation of the Oregon Coast Range (Cox, A. 1977)
- Tectono-stratigraphic terrane map of western Baja California, western California, and Southwest Oregon (Blake, M. C., Jr. 1979)
- Trace elements in continental-margin magmatism; Part I, Trace elements in the Clarno Formation of central Oregon and the nature of the continental margin on which eruption occurred (Rogers, J. J. W. 1980)
- Pacific region—Stratigraphy**
- Neogene:** The Paleogene-Neogene boundary in eastern North Pacific marine sequences (Addicott, W. O. 1979)
- Pacific region—Structural geology**
- Isostasy:** Isostasy and petrogenesis (Abramovich, I. I. 1977)
- Tectonics:** Cordilleran tectonic profiles, western USA (Maxwell, J. C. 1979)
- Pacific region—Tectonophysics**
- Mantle:** Regional magnetic variation profiling using the method of derivatives (Faynberg, E. B. 1976)
- Plate tectonics:** Base map for geoscience studies of the Juan de Fuca Plate; progress report (Rogers, G. C. 1978)
- Cenozoic plate convergence in the vicinity of the Pacific Northwest; a synthesis and assessment of plate tectonics in the northeastern Pacific (Carlson, R. L. 1976)
- Paleobotany**
- Algae:** Effects of micro-nutrients and major nutrients on the growth and species composition of natural phytoplankton populations (Frey, B. E. 1977)
- The distribution of estuarine diatoms along environmental gradients; a canonical correlation (McIntire, C. D. 1978)
- Angiosperms:** An extinct Evodia wood from Oregon (Gregory, I. 1976)
- Atlas of fossil fruits and seeds from North central Oregon (Bones, T. J. 1979)
- Flavonoid and other chemical constituents of fossil Miocene Celtis and Ulmus (Succor Creek flora) (Giannasi, D. E. 1977)
- Flavonoids and other chemical constituents of fossil Miocene Zelkova (Ulmaceae) (Niklas, K. J. 1977)
- Wood of Tapirira (Anacardiaceae) from the Paleogene Clarno Formation of Oregon (Manchester, S. R. 1977)
- Plantae:** Description and classification of the forests of the upper Illinois River drainage of southwestern Oregon (Atzet, T. 1979)
- Field trip; Succor Creek fossils (Douglas, D. 1979)
- The picture wood at Belveal Farm (McMackin, C. E. 1978)
- Paleocene** see also under Stratigraphy
- Paleoclimatology—Holocene**
- West:** The Altithermal as an archaeological "non-problem" in the Great Basin (Weide, D. L. 1976)
- Paleoclimatology—Miocene**
- Regional:** Diagenetic alteration and formation of authigenic minerals in the Miocene "Rome Beds", Southeast Oregon (Campion, K. M. 1979)
- Paleoclimatology—Pleistocene**
- Pacific Coast:** Late Pleistocene and Holocene zoogeography, Pacific Northwest coast (Kennedy, G. L. 1979)
- Pacific Ocean:** Radiolarian-planktonic foraminifera ratios and Pleistocene deep-sea stratigraphy in the northeastern Pacific off Oregon and Washington (Fowler, G. A. 1977)
- Paleoclimatology—Pliocene**
- North America:** Middle Pliocene temperature implications based on the Bryozoa Hippothoa (Cheilostomata-Asciophora) (Morris, P. A. 1976)
- Paleoclimatology—Quaternary**
- Pacific Coast:** Direct marine-continental correlation; 150,000-year oxygen isotope-pollen record from the North Pacific (Heusser, L. E. 1979)
- Regional:** The Warner Valley, Oregon; a test of pluvial climatic conditions (Weide, D. L. 1976)
- Paleoecology—Coelenterata**
- Triassic:** Paleoecology, structure, and distribution of Triassic coral buildups in western North America (Stanley, G. D., Jr. 1979)

Paleoecology—Eocene

Pacific Coast: Paleoecological evaluation of late Eocene biostratigraphic zonations on the West Coast (McDougall, K. 1979)

Paleoecology—Foraminifera

Eocene: Late Eocene foraminiferal biostratigraphy and paleoecology of northwestern Oregon (McDougall, K. 1977)
— Paleoecologic evaluation of late Eocene zonations of West Coast (McDougall, K. 1979)

Paleoecology—Holocene

Great Basin: Great Basin plant communities; pristine and grazed (Young, J. A. 1976)

Paleoecology—Interpretation

Communities: Identification and interpretation of communities at the generic level (Parrish, J. T. 1978)

Paleoecology—Invertebrata

Cenozoic: Late Cenozoic marine invertebrates from Northwest California and Southwest Oregon (Roth, B. 1979)

Paleoecology—Mollusca

Cenozoic: Cenozoic molluscan stages of Oregon and Washington (Armentrout, J. M. 1977)
— Molluscan paleoecology and biostratigraphy of Cenozoic deep-water facies in the Pacific Northwest (Hickman, C. S. 1977)
Miocene: New Miocene formation at Coos Bay, Oregon (Armentrout, J. M. 1978)
Pleistocene: Community succession of Pioneer Terrace molluscan fauna, Cape Blanco, Oregon (Armentrout, J. M. 1978)
Tertiary: Bathyal gastropods of the family Turridae in the early Oligocene Keasey Formation in Oregon, with a review of some deep-water genera in the Paleogene of the eastern Pacific (Hickman, C. S. 1976)
— Significance of pectinids in Tertiary biochronology of the Pacific Northwest states (Addicott, W. O. 1977)

Paleoecology—Plantae

Quaternary: Description and classification of the forests of the upper Illinois River drainage of southwestern Oregon (Atzet, T. 1979)

Paleoecology—Quaternary

Pacific Coast: Direct marine-continental correlation; 150,000-year oxygen isotope-pollen record from the North Pacific (Heusser, L. E. 1979)

Paleoecology—Triassic

North America: Triassic coral build-ups of western North America (Stanley, G. D., Jr. 1977)

Paleoecology—Trilobites

Cambrian: Middle Cambrian trilobite biostratigraphy of the Great Basin (Robison, R. A. 1976)

Paleoecology—Vertebrata

Quaternary: Mount Mazama, climatic change, and Fort Rock Basin archaeofaunas (Grayson, D. K. 1979)

Paleogene see also under Stratigraphy; see also under Stratigraphy under Pacific Coast

Paleogeography—Cambrian

Western U.S.: Cambrian and latest Precambrian paleogeography and tectonics in the western United States (Stewart, J. H. 1977)

Paleogeography—Cenozoic

Pacific Coast: A tectonic model for evolution of the Cascade Range (Hammond, Paul E. 1979)
— Cenozoic paleogeography of the western United States (Armentrout, J. M. 1979)
— Cenozoic plate tectonic setting of the Cordilleran region in the United States (Dickinson, W. R. 1979)
— Pacific Coast Cenozoic chronologic framework (Armentrout, J. M. 1979)
— The marine Cenozoic of the Pacific Coast states; an overview of the growth and development of biostratigraphic research (Addicott, W. O. 1979)

Paleogeography—Devonian

North America: Status of Devonian studies in western and Arctic North America (Johnson, J. G. 1977)

Western U.S.: Silurian and Devonian paleogeography of the western United States (Poole, F. G. 1977)

Paleogeography—Eocene

Regional: Paleomagnetic evidence for tectonic rotation of the Oregon Coast Range (Simpson, R. W., Jr. 1977)

Paleogeography—Jurassic

Regional: Biostratigraphy of the type Weberg Member, Snowshoe Formation, Grant County, Oregon (Taylor, D. G. 1977)

Paleogeography—Mesozoic

Regional: Paleogeographic and paleotectonic implications of Mesozoic stratigraphy and structure in the John Day inlier of central Oregon (Dickinson, W. R. 1978)

Western U.S.: Mesozoic paleogeography of the western United States (Howell, D. G. 1978)

Paleogeography—Mississippian

Western U.S.: Mississippian paleogeography and tectonics of the western United States (Poole, F. G. 1977)

Paleogeography—Neogene

Western U.S.: Neogene paleogeography of the western United States (Cole, M. R. 1979)

Paleogeography—Ordovician

Western U.S.: Ordovician paleogeography of the western United States (Ross, R. J., Jr. 1977)

Paleogeography—Paleozoic

California: Review of Paleozoic rocks of the Klamath Mountains (Irwin, W. P. 1977)

Idaho: Paleozoic rocks of eastern Oregon and western Idaho (Vallier, T. L. 1977)

Regional: Paleozoic rocks of eastern Oregon and western Idaho (Vallier, T. L. 1977)

Paleogeography—Pennsylvanian

Western U.S.: Pennsylvanian paleogeographic patterns in the western United States (Rich, M. 1977)

Paleogeography—Permian

Western U.S.: Permian depositional provinces and tectonics, western United States (Stevens, C. H. 1977)

Paleogeography—Silurian

Western U.S.: Silurian and Devonian paleogeography of the western United States (Poole, F. G. 1977)

Paleomagnetism—Cretaceous

USSR: Stratigraphy and paleomagnetic characteristics of the Upper Jurassic and Lower Cretaceous deposits of Stolbovoi Island, Novosibirsk Archipelago (Ivanov, V. V. 1977)

Paleomagnetism—Eocene

Regional: Paleomagnetic evidence for tectonic rotation of the Oregon Coast Range (Simpson, R. W., Jr. 1977)

— Paleomagnetic evidence for tectonic rotation of the Oregon Coast Range (Simpson, R. W., Jr. 1977)

— Paleomagnetic evidence for tectonic rotation of the Oregon Coast Range (Simpson, R. W., Jr. 1977)

— Paleomagnetism of the middle Tertiary Clarno Formation, North-central Oregon; constraint on models for tectonic rotation (Beck, M. E., Jr. 1978)

— Tectonic rotation of Eocene volcanic rocks in the Coast Range of Oregon (Cox, A. 1976)

— Tectonic rotation of middle Eocene sediments in the Coast Range of Oregon (Simpson, R. W., Jr. 1976)

— Tectonic rotation of the Oregon Coast Range (Cox, A. 1977)

— Tectonic rotation of the Oregon Coast Range, northwestern United States (Simpson, R. W., Jr. 1977)

Paleomagnetism—Interpretation

Crust: Metallic mineralogy of serpentinites; implications for deep crustal magnetic anomalies (Leavell, D. N. 1978)

Rotation: Paleomagnetic evidence for structural rotation in the Pacific Northwest (Basham, W. L. 1978)

Paleomagnetism—Jurassic

USSR: Stratigraphy and paleomagnetic characteristics of the Upper Jurassic and Lower Cretaceous deposits of Stolbovoi Island, Novosibirsk Archipelago (Ivanov, V. V. 1977)

Paleomagnetism—Mesozoic

Regional: Paleomagnetic evidence for the rotation of Jurassic plutons in eastern Oregon (Wilson, D. 1979)

Western U.S.: Paleomagnetic evidence for clockwise rotation in western Idaho, eastern Oregon, and northern Nevada (Basham, W. L. 1978)

Paleomagnetism—Miocene

Columbia Plateau: Magnetostratigraphy and correlation of Miocene basalts of the northern Oregon coast and Columbia Plateau, Southeast Washington (Choiniere, S. R. 1979)

— Magnetostratigraphy of the Imnaha and Grande Ronde basalts in the southeast part of the Columbia Plateau (Hooper, P. R. 1979)

Pacific Coast: Paleomagnetic correlation and magnetostratigraphy of Miocene basalts of the Oregon coast and Columbia Plateau (Choiniere, S. R. 1976)

Regional: Stratigraphic resolution of ambiguities in the interpretation of unusual paleomagnetic directions in Miocene basalts of the Oregon coast (Choiniere, S. R. 1976)

— Tectonic significance of the paleomagnetism of the Frenchman Springs Basalt, Oregon and Washington (Kienle, Clive F., Jr. 1978)

Paleomagnetism—Neogene

Regional: Picture Gorge Basalt coeval with middle part of Grande Ronde Basalt (Swanson, D. A. 1978)

— Stratigraphy, structure, and petrology of Columbia River Basalt in a portion of the Grande Ronde River - Blue Mountains area of Oregon and Washington (Ross, M. E. 1978)

Paleomagnetism—Oligocene

Regional: Tectonic rotation of Oligocene intrusive rocks in the Coast Range of Oregon; a constant rate of rotation for the period 50-30 m.y. B.P. (Plumley, P. W. 1977)

Paleomagnetism—Paleogene

Washington: Preliminary paleomagnetic results from the southern Cascade Range of southwestern Washington (Bates, R. G. 1979)

Paleomagnetism—Pole positions

Polar wandering: Microcontinental tectonics in the western North American Cordillera (Beck, M. E., Jr. 1977)

Paleomagnetism—Tertiary

Regional: Paleomagnetic record of a late Tertiary field reversal (Dodson, R. 1978)

— Paleomagnetism of basalt flows, North central Deschutes-Umatilla Plateau, Oregon (Farooqui, S. M. 1976)

— Rotations in Oregon (Cox, A. 1979)

Washington: Paleomagnetic record of a late Tertiary field reversal (Dodson, R. 1978)

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Amphibia: A new species of Taricha (Caudata; Salamandridae), from the Oligocene John Day Formation of Oregon (Naylor, B. G. 1979)

Foraminifera: An Eocene foraminiferal fauna from Bandon, Oregon (Link, R. L. 1976)

General: Fossils in Oregon; a collection of reprints from the Ore Bin (Steere, M. L. 1977)

Mammalia: A new late Hemingfordian mammal fauna from the John Day Formation, Oregon, and its stratigraphic implications (Woodburne, M. O. 1977)

— Hemphillian rodents from northern Oregon and their rela-

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- tionships to other rodent faunas in North America (Martin, J. E. 1979)
- Horse genealogy; the Oregon connection (Drake, E. T. 1978)
- Miocene dome-skulled chalicotheres (Mammalia, Perissodactyla) from the western United States; a preliminary discussion of a bizarre structure (Munthe, J. 1979)
- Reevaluation of early Miocene North American Moropus (Perissodactyla, Chalicotheriidae, Schizotheriinae) (Coombs, M. C. 1978)
- *Vulpes macrotis* (McGrew, J. C. 1979)
- Mollusca:** Bathyal gastropods of the family Turridae in the early Oligocene Keasey Formation in Oregon, with a review of some deep-water genera in the Paleogene of the eastern Pacific (Hickman, C. S. 1976)
- Big Seffy (Stafford, W. L. 1979)
- Community succession of Pioneer Terrace molluscan fauna, Cape Blanco, Oregon (Armentrout, J. M. 1978)
- First occurrence, systematics, and functional morphology of *Nipponites* (Cretaceous *Lytocera*) from the Americas (Ward, P. D. 1977)
- Marine fossils on Oregon beaches (Heflin, E. 1979)
- *Pleurotomaria* (Archaeogastropoda) in the Eocene of the northeastern Pacific; a review of Cenozoic biogeography and ecology of the genus (Hickman, C. S. 1976)
- Reptilia:** A new amphisbaenian (Reptilia; Amphisbaenia) from the Oligocene-Miocene John Day Formation, Oregon (Beraman, D. S. 1976)
- Jurassic marine crocodilians (Mesosuchia, Teleosauridae) from central Oregon; first record in North America (Buffet, E. 1979)
- Paleozoic** *see also under* Stratigraphy
- Palynomorphs—Biostratigraphy**
- Quaternary:** Direct marine-continental correlation; 150,000-year oxygen isotope-pollen record from the North Pacific (Heusser, L. E. 1979)
- Pollen influx and volcanic ash (Mehring, P. J., Jr. 1977)
- Palynomorphs—Miospores**
- Holocene:** Pollen influx and the deposition of Mazama and Glacier Peak tephra (Blinman, E. 1979)
- Paragenesis—Gold**
- Regional:** Paragenesis and geochemistry of the Granite gold district, Grant County, Oregon (Young, James Stanton. 1979)
- Paragenesis of gold veins in the Granite District, Grant County, Oregon (Young, J. Stanton. 1979)
- Pelecypoda** *see Bivalvia under* Mollusca
- Pennsylvanian** *see also under* Stratigraphy *under* Western U.S.

Periglacial features *see under* Glacial geology

Permian *see also under* Stratigraphy; *see also under* Stratigraphy *under* Western U.S.

Petroleum *see also under* Economic geology; *see also under* Economic geology *under* Pacific Coast

Petrology

- Igneous rocks:** Application of pyroxene and olivine-spinel geothermometers to the alpine peridotites in southwestern Oregon (Henry, D. J. 1976)
- Basalt geology of eastern Oregon (Farooqui, Shannon and Wilson. 1978)
- Basalts of Oregon (U.S.A.) and their geotectonic environment; I, Petrochemistry of Tertiary basalts of the Oregon Coast Range (Loeschke, J. 1979)
- Chemistry, petrography, and stratigraphy of the Columbia River Group in the Imnaha River valley region, eastern Oregon and western Idaho (Kleck, W. D. 1976)
- Climatic eruption of Crater Lake, Oregon; evidence for crystal fractionation in a water-undersaturated magma (Ritchey, J. L. 1979)
- Climatic eruptions of Crater Lake; evidence for an early stage of mixing within a pluton (Eichelberger, J. C. 1978)
- Complementary meta-gabbros and peridotites in the northern Klamath Mountains, U.S.A. (Kays, M. A. 1977)
- Composition and differentiation of the Imnaha Basalt, Columbia River Group (Hooper, P. R. 1976)
- Compositional layering in alpine peridotites; evidence for pressure solution creep in the mantle (Dick, H. J. B. 1979)
- Evidence of partial melting in the Josephine Peridotite (Dick, H. J. B. 1977)
- Formation of small dunite bodies from harzburgite by metasomatic transformation in the Canyon Mountain ophiolite, Oregon (Dungan, M. A. 1976)
- Geochemical data on Columbia River Basalt stratigraphy in western Oregon (Beeson, Marvin H. 1976)
- Geology and petrology of the Strawberry Volcanics, NE Oregon (Robyn, T. L. 1977)
- Geology of a volcanic complex on the south flank of Mt. Jefferson, Oregon (Gannon, Brian L. 1977)
- Geology of the gabbroic complex along the northern border of the Josephine Peridotite, Vulcan Peak area, southwestern Oregon (Loney, R. A. 1977)
- Geology of the Quartzburg mining district, Grant County, Oregon (Johnson, F. R. 1975)
- Late Cenozoic ash-flow tuffs and their vents, eastern Oregon (Walker, G. W. 1976)
- Major element geochemistry and origin of albite granite near Sparta, Oregon (Almy, R. 1978)

- Morphologic parameters of Mount Mazama and Glacier Peak tephra; a scanning-electron microscope study (Tucker, G. B. 1977)
- Near vent characteristics of the Dinner Creek ash-flow tuff, eastern Oregon (Wood, John D. 1976)
- Nepheline syenite, STM-1, from Table Mountain, Oregon (Snively, P. D., Jr. 1976)
- Non-subduction related late-Miocene calc-alkaline volcanic activity in NE Oregon (Robyn, T. L. 1977)
- Ophiolitic terranes of California, Oregon, and Nevada (Irwin, W. P. 1977)
- Oregon's incredible Glass Buttes (Heflin, E. 1979)
- Origin of a continental calc-alkaline volcanic suite, NE Oregon (Robyn, T. L. 1977)
- Origin of albite granites near Sparta, northeastern Oregon (Phelps, D. W. 1977)
- Partial melting in the Josephine Peridotite; I, The effect on mineral composition and its consequence for geobarometry and geothermometry (Dick, H. J. B. 1977)
- Petrogenesis of Picture Gorge basalts; a preliminary report (Goles, G. G. 1976)
- Petrology and initial tectonic setting of Permian and Triassic volcanic rocks, northeastern Oregon and western Idaho (Batiza, R. 1976)
- Preliminary correlation of lower Yakima Basalt flows in western Oregon with the type area in central Washington (Beeson, Marvin H. 1976)
- Quartz latite (dellenite), QLO-1, from southeastern Oregon (Walker, G. W. 1976)
- Rogue River island arc complex, western Jurassic belt, Klamath Mountains, Oregon (Garcia, M. O. 1976)
- Some quantitative aspects of orogenic volcanism in the Oregon Cascades (White, Craig M. 1978)
- Source directions of pumice and ash deposits near Bend, Oregon (Mimura, K. 1978)
- Structural implications of the Yakima Basalt in North central Oregon and South central Washington (Farooqui, S. M. 1976)
- Studies of phase relations in subalkaline volcanic rock series (Osborn, E. F. 1977)
- Tephra layer from boreholes in Columbia Basin alluvium (Beeson, Marvin H. 1978)
- The Canyon Mountain Complex, Oregon, and some problems of ophiolites (Thayer, T. P. 1977)
- The Clarno Formation; a record of early Tertiary volcanism in central Oregon (Taylor, Edward M. 1977)
- The Clarno Formation of central Oregon, U.S.A.; volcanism on a thin continental margin (Rogers, J. J. W. 1977)

- The Josephine Complex; an ophiolite in Southwest Oregon (Vail, Scott G. 1976)
- The origin and emplacement of the Josephine Peridotite of southwestern Oregon (Dick, H. J. B. 1976)
- The origin of the Miocene basalts of coastal Oregon and Washington; an alternative hypothesis (Beeson, Marvin H. 1979)
- Volcanism and mineralization of the McDermitt Caldera, Nevada-Oregon (Rytuba, J. J. 1976)
- Intrusions:** Amphibole stability in a differentiated calc-alkaline magma chamber; an experimental investigation (Ritchey, J. L. 1978)
- Evolution of composite volcanoes; the role of dike and sill emplacement within the volcanic edifice (Crowe, B. 1978)
- Gently dipping feeder dikes for Columbia River Basalt Group (Swanson, D. A. 1978)
- Geology, petrology, and mineralization of the Paisley Mountains plutonic complex, Lake County, Oregon (Hammit, J. W. 1976)
- Hornblende and related rocks from the contact zone of a hornblende diorite pluton in Southwest Oregon; a geochemical and petrographic study (Eldridge, C. Stewart. 1977)
- Lava:** Mineralogy and petrogenesis of the Yapoah basaltic andesite, McKenzie Pass area, central Oregon (Green, N. L. 1978)
- Rhyolitic volcanism in southeastern Oregon and the Snake River plain, Idaho; similarities and contrasts (Walker, G. W. 1977)
- Magma:** Crystal clots, amphibole fractionation and the evolution of calc-alkaline magmas (Garcia, M. O. 1979)
- Evidence of partial melting and fractional crystallization of Columbia River Basalt magmas, Oregon and Washington (Ross, M. E. 1979)
- Inferred depths of origin of High Cascade magmas (Goles, G. G. 1977)
- Magmatic evolution of the central Oregon Cascades (McBirney, A. R. 1976)
- Origin of divergent magmas at Crater Lake, Oregon (Ritchey, J. L. 1979)
- Viscosities of basalt and andesite melts at high pressures (Kushiro, I. 1976)
- Viscosity of basalt and andesite magmas at high pressures (Kushiro, I. 1976)
- Maps:** Ophiolitic terranes of part of the western United States (Irwin, W. P. 1979)
- Preliminary geologic map of the metavolcanic rocks in part of the Canyonville, Days Creek, and Glendale quadrangles, Oregon (Johnson, M. G. 1979)
- Metamorphic rocks:** Alkaline pillowed greenstone, Greenhorn Mountains, Northeast Oregon (Mullen, E. D. 1979)

- Mesozoic metavolcanic sequences in the northern Klamath Mountains, southwestern Oregon (Johnson, M. G. 1977)
- Petrogenesis of spilite and keratophyre from a Permian and Triassic volcanic arc terrane, eastern Oregon and western Idaho, U.S.A. (Vallier, T. L. 1978)
- Petrographic and structural reconnaissance of the Franciscan Complex (Dothan/Otter Point) in the Dillard Block, Southwest Oregon (Worley, P. L. H. 1978)
- Petrology of the Rogue River area, Klamath Mountains, Oregon; problems in the identification of ancient volcanic arcs (Garcia, M. O. 1976)
- The amphibolite of Briggs Creek; a tectonic slice of metamorphosed oceanic crust in southwestern Oregon? (Coleman, R. G. 1976)
- Metamorphism:** Contrasting metamorphic terrains of Siskiyou Mountains, Oregon-California (Ferns, M. L. 1978)
- Textural banding in igneous rocks; an example from southwestern Oregon (Jorgenson, D. B. 1979)
- Metasomatic rocks:** Metallic mineralogy of serpentinites; implications for deep crustal magnetic anomalies (Leavell, D. N. 1978)
- Metasomatism:** Formation of small dunitic bodies by metasomatic transformation of harzburgite in the Canyon Mountain Ophiolite, Northeast Oregon (Dungan, M. A. 1977)
- Zeolite-clay mineral zonation of volcanoclastic sediments within the McDermitt Caldera complex of Nevada and Oregon (Glanzman, R. K. 1979)
- Volcanic rocks:** Basalts of Oregon (U.S.A.) and their geotectonic environment; II, Petrochemistry of Tertiary and Quaternary basalts and andesites of the Western and High Cascades (Loeschke, J. 1979)
- Volcanism:** Mount Mazama, climatic change, and Fort Rock Basin archaeofaunas (Grayson, D. K. 1979)
- Petrology of the Rogue River area, Klamath Mountains, Oregon; problems in the identification of ancient volcanic arcs (Garcia, M. O. 1976)
- Pollen influx and the deposition of Mazama and Glacier Peak tephra (Blinman, E. 1979)
- The geology of the Castle Rock area, Grant, Harney and Malheur counties, Oregon (Wood, John D. 1976)
- Volcanology:** Cenozoic volcanism in the Cascade Range, Medford 2° sheet, southern Oregon (Smith, J. G. 1979)
- Duration and volume of Columbia River Basalt volcanism, Washington, Oregon, and Idaho (McKee, E. H. 1977)
- Miocene volcanism in eastern Oregon; an example of calc-alkaline volcanism unrelated to subduction (Robyn, T. L. 1979)
- Petrology and evolution of Mount Mazama (Crater Lake); a geochemical study (Leeman, W. P. 1979)
- Some quantitative aspects of orogenic volcanism in the Oregon Cascades (McBirney, A. R. 1977)
- The John Day Formation of Oregon; a record of early Cascade volcanism (Robinson, P. T. 1979)
- Phase equilibria—Chain silicates, amphibole group**
- Amphibole:** Amphibole stability in a differentiated calc-alkaline magma chamber; an experimental investigation (Ritchey, J. L. 1978)
- Phase equilibria—Experimental studies**
- Fe-Ni-S:** Origin and mineral chemistry of "josephinite" (Thorner, C. R. 1976)
- Phase equilibria—Lava**
- Melting:** Mineralogy and petrogenesis of the Yapoah basaltic andesite, McKenzie Pass area, central Oregon (Green, N. L. 1978)
- Phase equilibria—Magmas**
- Experimental studies:** Origin of divergent magmas at Crater Lake, Oregon (Ritchey, J. L. 1979)
- P-T conditions:** Vapor exsolution in andesitic and bimodal volcanism and an estimate of depth to magma (Eichelberger, J. C. 1979)
- Phase equilibria—Native elements and alloys**
- Interpretation:** Geology, petrography and origin of josephinite (Weathers, M. S. 1976)
- Phase equilibria—Silicates**
- Melts:** Studies of phase relations in subalkaline volcanic rock series (Osborn, E. F. 1977)
- Phosphorus—Geochemistry**
- Sediments:** Sediment characteristics and the trophic status of four Oregon lakes (Davis, G. E. 1976)
- Placers—Gold**
- Regional:** A geological field trip guide from Sweet Home, Oregon, to the Quartzville mining district (Gray, Jerry J. 1977)
- Placers—Heavy minerals**
- Pacific Coast:** Heavy minerals and bedrock minerals on the continental shelf off Washington, Oregon and California (Phillips, R. L. 1979)
- Plantae** *see also* Algae; Angiosperms; Palynomorphs
- Plantae—Biogeography**
- Holocene:** The ecological biogeography of an Oregon coastal salt marsh (Eilers, H. P. 1976)
- Plantae—Ecology**
- Communities:** Description and classification of the forests of the upper Illinois River drainage of southwestern Oregon (Atzet, T. 1979)
- Plantae—Floral studies**
- Fossil wood:** The picture wood at Fossil Farm (McMackin, C. E. 1978)
- Leaves:** Field trip; Succor Creek fossils (Douglas, D. 1979)
- Plantae—Occurrence**
- Fossil wood:** Beach treasures of Whiskey Run (Heflin, E. 1979)
- Plate tectonics** *see also under* Tectonophysics; *see also under* Tectonophysics *under* Pacific Coast; Pacific region; Western U.S.
- Pleistocene** *see also under* Stratigraphy; *see also under* Stratigraphy *under* Pacific Coast
- Pleistocene—Stratigraphy**
- Biostratigraphy:** Radiolarian ratios and Pleistocene-Holocene boundary (McMillen, K. J. 1979)
- Pliocene** *see also under* Stratigraphy
- Plutons** *see under* Intrusions
- Pollution** *see also under* Environmental geology; *see also under* Environmental geology *under* Pacific Coast; Western U.S.
- Polymetallic ores** *see also under* Economic geology
- Pumice** *see also under* Pyroclastics and glasses *under* Igneous rocks
- Quaternary** *see also under* Stratigraphy; *see also under* Geochronology *under* Pacific Coast; *see also under* Stratigraphy *under* Pacific Coast
- Quaternary—Stratigraphy**
- Biostratigraphy:** Radiolarian ratios and Pleistocene-Holocene boundary (McMillen, K. J. 1979)
- Radioactive dating** *see* Absolute age
- Radiolaria—Biostratigraphy**
- Eocene:** Biostratigraphy of the Texaco Clark and Wilson No. 6-1 Well, Columbia County, Oregon (McKeel, Daniel R. 1979)
- Holothurian microfossils and Eocene stratigraphy of Southwestern Oregon (Orr, W. N. 1978)
- Mesozoic:** Radiolarians from Mesozoic rocks in western Oregon (Blair, W. N. 1978)
- Radiolarians from pre-Nevadan rocks of the Klamath Mountains, California and Oregon (Irwin, W. P. 1978)
- Paleozoic:** Radiolarian age-dating of Paleozoic cherts (Jones, D. L. 1978)
- Pleistocene:** Radiolarian-planktonic foraminifera ratios and Pleistocene deep-sea stratigraphy in the northeastern Pacific off Oregon and Washington (Fowler, G. A. 1977)
- Radiolarian ratios and Pleistocene-Holocene boundary (McMillen, K. J. 1979)
- Triassic:** Upper Triassic (Norian) radiolarian biostratigraphy in western North America (Blome, C. D. 1978)
- Upper Triassic Radiolaria from eastern Oregon and Queen Charlotte Islands, British Columbia (Blome, C. D. 1979)
- Radium—Isotopes**
- Ra-226:** Geochronology on Cascadia abyssal plain using high resolution gamma ray spectrometry (Cutshall, N. H. 1978)
- Rare earths** *see also* Yttrium
- Rare earths—Abundance**
- Igneous rocks:** Jurassic ophiolitic rocks in the Klamath Mountains, S.W. Oregon and implications for pre-Nevadan paleogeography (Vail, Scott G. 1977)
- Keratophyre:** Petrology and geochemistry of silicic rocks in the Canyon Mountain ophiolite, northeastern Oregon (Gerlach, D. C. 1979)
- Metavolcanic rocks:** Petrology of the Rogue and Galice formations, Klamath Mountains, Oregon; identification of a Jurassic island arc sequence (Garcia, M. O. 1979)
- Peridotite:** Trace element abundances in josephinite and related rocks (Goettel, K. A. 1978)
- Reclamation** *see also under* Environmental geology
- regional geology** *see* areal geology *under* the appropriate area term
- Remote sensing** *see also* Geophysical methods; Geophysical surveys; *see also under* Geophysical surveys *under* Basin and Range Province; Pacific Coast
- Remote sensing—Applications**
- Hydrogeology:** Use of earth satellites for automation of hydrologic data collection (Paulson, R. W. 1978)
- Land use:** Land use analysis in unurbanized areas (Jensen, J. R. 1979)
- Remote sensing—Imagery**
- SkyLab:** Skylab 4 observations of volcanoes; Part A, Volcanoes and volcanic landforms (Friedman, J. D. 1977)
- Remote sensing—Interpretation**
- Multispectral analysis:** Visible and near-infrared spectra of rocks from chromium-rich areas (Hunt, G. R. 1979)
- Reptilia—Archosauria**
- Jurassic:** Jurassic marine crocodilians (Mesosuchia, Teleosauridae) from central Oregon; first record in North America (Buf-fetaut, E. 1979)
- Reptilia—Lepidosauria**
- Tertiary:** A new amphisbaenian (Reptilia; Amphisbaenia) from the Oligocene-Miocene John Day Formation, Oregon (Berman, D. S. 1976)
- Reservoirs** *see also under* Engineering geology
- Rhyolite** *see under* Andesite-rhyolite family *under* Igneous rocks; *see under* Volcanic rocks *under* Igneous rocks
- Ring silicates** *see under* Minerals
- Rock mechanics** *see also* Soil mechanics
- Rock mechanics—Failure**
- Slope stability:** Monitoring of the performance of rock slopes as related to design considerations (John, K. W. 1977)
- Rock mechanics—Materials, properties**
- Elastic properties:** Ophiolites, seismic velocities and oceanic crustal structure (Christensen, N. I. 1978)
- Fragmentations:** Slaking basalts (Higgs, N. B. 1976)
- Stress:** Causes of degradation in basaltic aggregates and durability testing (Van Atta, Robert O. 1976)
- Rocky Mountains—Petrology**
- Igneous rocks:** Interrelations of lower Tertiary volcanic fields in northwestern interior United States (Prostka, H. J. 1977)

Rocky Mountains

Rocky Mountains—Stratigraphy

Tertiary: Interrelations of lower Tertiary volcanic fields in northwestern interior United States (Prostka, H. J. 1977)

Triassic: Triassic coral buildups of western North America (Stanley, G. D., Jr. 1977)

Rocky Mountains—Structural geology

Tectonics: Major tectonic elements and tectonic problems along the line of section from northeastern Oregon to west-central Montana; map summary (Hyndman, D. W. 1979)

Rubidium—Geochemistry

Igneous rocks: Basalts of Oregon (U.S.A.) and their geotectonic environment; I, Petrochemistry of Tertiary basalts of the Oregon Coast Range (Loeschke, J. 1979)

Sand *see also under* Economic geology; *see also under* Economic geology *under* Pacific Coast

Sandstone *see also under* Clastic rocks *under* Sedimentary rocks

Sea water—Composition

Suspended materials: A study of suspended particulate matter; Arctic Ocean and northern Oregon continental shelf (Peterson, R. E. 1977)

—Suspended material over the central Oregon continental shelf in May 1974; I, Concentrations of organic and inorganic components (McCave, I. N. 1979)

Sea water—Geochemistry

Nitrogen: Nitrous oxide and methane in Alsea Bay, Oregon (de Angelis, M. A. 1979)

Sedimentary petrology

Diagenesis: Diagenetic alteration and formation of authigenic minerals in the Miocene Rome Beds, Southeast Oregon (Campion, K. M. 1979)

—Diagenetic alteration and formation of authigenic minerals in the Miocene "Rome Beds", Southeast Oregon (Campion, K. M. 1979)

—Petrology and diagenetic effects of graywacke sandstones; Eocene Umpqua Formation, Southwest Oregon (Burns, L. K. 1977)

—Petrology and diagenetic effects of lithic sandstones; Paleocene and Eocene Umpqua Formation, Southwest Oregon (Burns, L. K. 1979)

Sedimentary rocks: Grain orientation of massive sandstones (Robertson, C. A. 1976)

—Mesozoic lithic sandstones in central Oregon (Dickinson, W. R. 1979)

—Tertiary volcanoclastic deltas in an arc-trench gap, Oregon Coast Range (Niem, Alan R. 1976)

Sedimentary structures: Clastic dikes in southeastern Oregon (Peterson, Norman V. 1978)

—Deposition of upper Mesozoic resedimented conglomerates and associated turbidites in southwestern Oregon (Walker, R. G. 1977)

—Retrogradational shelf sequence; Upper Cretaceous (Campanian-Maestrichtian) Cape

Sebastian Sandstone, southwestern Oregon (Bourgeois, J. 1979)

Sedimentation: Beach profiles obtained with an amphibious DUKW on the Oregon and Washington coasts (Komar, P. D. 1977)

—Debris removal and its effects on sedimentation in an Oregon coast range stream (Beschta, R. L. 1979)

—Depositional trends of modern and ancient deep-sea fans (Nelson, C. H. 1976)

—Evidence for a Late Jurassic island arc of the Franciscan Complex, southwestern Oregon (Wiggins, B. D. 1979)

—Modeling of sediment transport processes over uneven erodible beds in marine systems (McLean, S. R. 1976)

—Paleocurrent trends and petrologic variations in Mesozoic strata near South Fork of John Day River, central Oregon (Dickinson, W. R. 1976)

—Provenance, distribution, and alteration of volcanic sediments in a saline, alkaline lake (Deike, R. 1976)

—Sand transport across Eocene shelf and slope in southwestern Oregon (Dott, R. H., Jr. 1978)

—Sediment sources and Holocene sedimentation history in Tillamook Bay, Oregon; data and preliminary interpretations (Glenn, J. L. 1978)

—Sedimentology of two progradational submarine-channel deposits on an active continental margin, Cretaceous, southwestern Oregon (Bourgeois, J. 1979)

—Submarine-fan conglomerates and sandstones, Jurassic of southwestern Oregon, not associated with continental margin (Walker, R. G. 1976)

Sediments: Opaque minerals as aids in distinguishing between source and sorting effects on beach-sand mineralogy in southern Oregon (Luepke, G. 1976)

—Sediment characteristics and the trophic status of four Oregon lakes (Davis, G. E. 1976)

—The petrology and stratigraphy of the Portland Hills Silt (Lentz, R. T. 1977)

Sedimentary rocks *see also* Sedimentary structures; Sedimentation; Sediments

Sedimentary rocks—Carbonate rocks

Limestone: An exposure of limestone at Gray Butte, Jefferson County, Oregon (Ashwill, M. 1979)

Sedimentary rocks—Chemically precipitated rocks

Chert: Jurassic radiolarian chert from near John Day, Oregon (Jones, D. L. 1976)

Sedimentary rocks—Clastic rocks

Conglomerate: Deposition of upper Mesozoic resedimented conglomerates and associated turbidites in southwestern Oregon (Walker, R. G. 1977)

—Submarine-fan conglomerates and sandstones, Jurassic of

southwestern Oregon, not associated with continental margin (Walker, R. G. 1976)

Diagenesis: Diagenetic alteration and formation of authigenic minerals in the Miocene Rome Beds, Southeast Oregon (Campion, K. M. 1979)

—Diagenetic alteration and formation of authigenic minerals in the Miocene "Rome Beds", Southeast Oregon (Campion, K. M. 1979)

Environmental analysis: Mesozoic forearc basin in central Oregon (Dickinson, W. R. 1979)

Fanglomerate: Petrography of the Rattlesnake Formation at the type area, central Oregon (Enlows, Harold E. 1976)

Flysch: Evidence for a Late Jurassic island arc of the Franciscan Complex, southwestern Oregon (Wiggins, B. D. 1979)

Graywacke: Petrology and diagenetic effects of graywacke sandstones; Eocene Umpqua Formation, Southwest Oregon (Burns, L. K. 1977)

Lithofacies: Mesozoic paleogeography and paleotectonics, Supplee and Aldrich Mountains inlier, central Oregon (Dickinson, W. R. 1978)

Lithostratigraphy: Stratigraphy and petrography of the Selah Member, Roosevelt-Arlington area, North central Oregon and South central Washington (Farooqui, S. M. 1978)

—The Permian and Triassic Seven Devils Group, western Idaho and northeastern Oregon (Vallier, T. L. 1977)

Mudstone: Development of spaced cleavage in deep-sea mudstone; an initial response to subduction (Berglund, P. L. 1978)

Petrography: Petrography of selected samples from the Pittsburg Bluff and Cowlitz formations in northwestern Oregon (Van Atta, Robert O. 1976)

Pyroclastics: Zeolite-clay mineral zonation of volcanoclastic sediments within the McDermitt Caldera complex of Nevada and Oregon (Glanzman, R. K. 1979)

Sandstone: Field guide to the geology of Corvallis and vicinity, Oregon (Lawrence, Robert D. 1977)

—Mesozoic lithic sandstones in central Oregon (Dickinson, W. R. 1979)

—Petrology and diagenetic effects of lithic sandstones; Paleocene and Eocene Umpqua Formation, Southwest Oregon (Burns, L. K. 1979)

—Retrogradational shelf sequence; Upper Cretaceous (Campanian-Maestrichtian) Cape Sebastian Sandstone, southwestern Oregon (Bourgeois, J. 1979)

—Tertiary volcanoclastic deltas in an arc-trench gap, Oregon Coast Range (Niem, Alan R. 1976)

Trace elements: Diagenetic and hydrothermal alteration, and trace element distribution in tuffaceous sediments within the McDermitt Caldera, Nevada-Oregon (Rytuba, J. J. 1977)

Sedimentary structures

Turbidite: Fan Valleys, channels, and depositional lobes on modern submarine fans; characters for recognition of sandy turbidite environments (Normark, W. R. 1978)

—Grain orientation of massive sandstones (Robertson, C. A. 1976)

—Paleocurrent trends and petrologic variations in Mesozoic strata near South Fork of John Day River, central Oregon (Dickinson, W. R. 1976)

—Sedimentology of two progradational submarine-channel deposits on an active continental margin, Cretaceous, southwestern Oregon (Bourgeois, J. 1979)

Sedimentary rocks—Lithofacies

Environmental analysis: Sand transport across Eocene shelf and slope in southwestern Oregon (Dott, R. H., Jr. 1978)

Petrography: Lithofacies and depositional environments of the Coaledo Formation, Coos County, Oregon (Ryberg, Paul Thomas. 1978)

Sedimentary rocks—Lithostratigraphy

Shale: Pre-Tertiary stratigraphy in the Snake River canyon and adjacent Seven Devils and Wallowa Mountains, northeastern Oregon and western Idaho (Vallier, T. L. 1976)

Sedimentary structures—Sedimentary rocks; Sediments

Sedimentary structures—Bedding plane irregularities

Genesis: Modeling of sediment transport processes over uneven erodible beds in marine systems (McLean, S. R. 1976)

Sedimentary structures—Environmental analysis

Graded bedding: Submarine-fan conglomerates and sandstones, Jurassic of southwestern Oregon, not associated with continental margin (Walker, R. G. 1976)

Marine environment: Sand transport across Eocene shelf and slope in southwestern Oregon (Dott, R. H., Jr. 1978)

Nearshore environment: Retrogradational shelf sequence; Upper Cretaceous (Campanian-Maestrichtian) Cape Sebastian Sandstone, southwestern Oregon (Bourgeois, J. 1979)

Submarine environment: Sedimentology of two progradational submarine-channel deposits on an active continental margin, Cretaceous, southwestern Oregon (Bourgeois, J. 1979)

Submarine fans: Fan Valleys, channels, and depositional lobes on modern submarine fans; characters for recognition of sandy turbidite environments (Normark, W. R. 1978)

Sedimentary structures—Interpretation

Graded bedding: Deposition of upper Mesozoic resedimented conglomerates and associated turbidites in southwestern Oregon (Walker, R. G. 1977)

Sedimentary structures—Planar bedding structures

Genesis: The Touchet Beds of the Walla Walla Valley (Carson, R. J. 1978)

Sedimentary structures—Secondary structures

Clastic dikes: Clastic dikes in southeastern Oregon (Peterson, Norman V. 1978)

Sedimentation—Controls

Structural controls: Quaternary sedimentation and tectonics on Oregon continental slope; active-margin environment (Kulm, L. D. 1978)

Tectonic controls: Mesozoic forearc basin in central Oregon (Dickinson, W. R. 1979)

Sedimentation—Cyclic processes

Beaches: Seasonal variation in beach erosion and sedimentation on the Oregon coast (Fox, W. T. 1978)

Dunes: Daily cycles in coastal dune deposits (Hunter, R. E. 1978)

Transgression: Retrogradational shelf sequence; Upper Cretaceous (Campanian-Maestrichtian) Cape Sebastian Sandstone, southwestern Oregon (Bourgeois, J. 1979)

Sedimentation—Diagenesis

Consolidation: Tectonically induced deformation of deep-sea sediments off Washington and northern Oregon; mechanical consolidation (Carson, B. 1977)

Sedimentation—Environment

Bays: Sediment sources and Holocene sedimentation history in Tillamook Bay, Oregon; data and preliminary interpretations (Glenn, J. L. 1978)

Beaches: Beach profiles obtained with an amphibious DUKW on the Oregon and Washington coasts (Komar, P. D. 1977)

— Opaque minerals as aids in distinguishing between source and sorting effects on beach-sand mineralogy in southern Oregon (Luepke, G. 1976)

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— Submarine-fan conglomerates and sandstones, Jurassic of southwestern Oregon, not associated with continental margin (Walker, R. G. 1976)

Sedimentation—Processes

Floods: Late Pleistocene sediments and floods in the Willamette Valley (Allison, I. S. 1978)

Resuspension: Optical evidence of sediment resuspension; Oregon continental shelf (Chriss, T. M. 1977)

Sedimentation—Provenance

Estuaries: Estuarine sediment sources in the Tillamook Estuary in Oregon (Glenn, J. L. 1978)

Island arcs: Evidence for a Late Jurassic island arc of the Franciscan Complex, southwestern Oregon (Wiggins, B. D. 1979)

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Volcanic ash: Source directions of pumice and ash deposits near Bend, Oregon (Mimura, K. 1978)

Sedimentation—Rates

Eocene: Planktonic foraminifera of the lower Tertiary Roseburg, Lookingglass, and Flournoy formations, Southwest Oregon (Miles, G. A. 1977)

Indicators: Paleogene planktonic foraminifera from Southwest Oregon (Miles, G. A. 1977)

Interpretation: Geochronology on Cascadia abyssal plain using high resolution gamma ray spectrometry (Cutshall, N. H. 1978)

Sedimentation—Transport

Marine transport: Beach profile changes and onshore-offshore sand transport on the Oregon coast (Aguilar-Tunon, N. A. 1977)

— Modeling of sediment transport processes over uneven erodible beds in marine systems (McLean, S. R. 1976)

— Sand transport across Eocene shelf and slope in southwestern Oregon (Dott, R. H., Jr. 1978)

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— Stability of dredged material deposited seaward of the Columbia River mouth (Sternberg, R. W. 1979)

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Sediments *see also* Sedimentary rocks; Sedimentary structures; Sedimentation

Sediments—Carbonate sediments

Lithostratigraphy: Radiolarian-planktonic foraminifera ratios and Pleistocene deep-sea stratigraphy in the northeastern Pacific off Oregon and Washington (Fowler, G. A. 1977)

Sediments—Clastic sediments

Clay: The many facets of clays, in Corvallis (Hower, W. F. 1976)

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Till: Quaternary glaciation and volcanism, Metolius River area, Oregon (Scott, W. E. 1977)

Volcanic ash: Chabazite in siliceous tuffs of a Pliocene lacustrine deposit near Durkee, Baker County, Oregon (Gude, A. J., III. 1978)

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Suspended materials: Optical evidence of sediment resuspension; Oregon continental shelf (Chriss, T. M. 1977)

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Terrestrial environment: Late Pleistocene sediments and floods in the Willamette Valley (Allison, I. S. 1978)

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Consolidation: Tectonic consolidation of deep-sea sediments; preliminary results of laboratory simulation (Carson, B. 1976)

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Seismology—Crust

Elastic waves: Ophiolites, seismic velocities and oceanic crustal structure (Christensen, N. I. 1978)

Strain: Strain accumulation rates in the western United States between 1970 and 1978 (Prescott, W. H. 1979)

Structure: Crustal thickness in northern Nevada from seismic refraction profiles (Stauber, D. A. 1978)

Velocity structure: Crustal structure near the Juan de Fuca and Explorer plate boundary from seismic refraction data (Au, D. 1979)

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Crust: The April 29, 1965 Puget Sound earthquake and the crustal and upper mantle structure of western Washington and Oregon (Langston, C. A. 1977)

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Detection: Sonobuoy array measurements of active faulting on the Gorda Ridge (Jones, P. R. 1978)

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Sheet silicates *see under* Minerals

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Slope stability *see also* Engineering geology; Geomorphology

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Soil mechanics—Case studies

Stability: Performance of a thin metal retaining wall with multiple anchorage (Schroeder, W. L. 1976)

Soil mechanics—Experimental studies

Slope stability: Influence of soil aggregation on slope stability in the Oregon Coast Ranges (Yee, C. S. 1977)

Soils—Erosion

Landslides: Timber harvesting, mass erosion, and steepland forest geomorphology in the Pacific Northwest (Swanston, D. N. 1976)

Soils—Surveys

California: Comparison of relative age dating (RAD) data from eastern Sierra Nevada cirque deposits with those from the tephrochronologically age controlled deposits of the Wallowa Mountains, Oregon (Burke, R. M. 1978)

Idaho: Erosion research in the dryland grain region of the Pacific Northwest; recent developments and needs (McCool, D. K. 1977)

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Human waste: Land utilization and disposal of organic wastes in cool subhumid and humid regions (Viets, F. G., Jr. 1977)

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Springs—Geochemistry

Mineral waters: A model for fluids in metamorphosed ultramafic rocks (Pfeifer, H. R. 1977)

Standard materials—Igneous rocks

Nepheline syenite: Nepheline syenite, STM-1, from Table Mountain, Oregon (Snively, P. D., Jr. 1976)

Quartz latite: Quartz latite (dellenite), QLO-1, from southeastern Oregon (Walker, G. W. 1976)

Stratigraphy

Carboniferous: Carboniferous formations in Oregon (Baldwin, Ewart M. 1979)

Cenozoic: Cenozoic molluscan stages of Oregon and Washington (Armentrout, J. M. 1977)

— Geologic cross section of the central Oregon continental margin (Snively, P. D., Jr. 1980)

— Interpretation of the Cenozoic geologic history, central Oregon continental margin; cross-section summary (Snively, P. D., Jr. 1980)

— Late Cenozoic ash-flow tuffs and their vents, eastern Oregon (Walker, G. W. 1976)

— Magmatic evolution of the central Oregon Cascades (McBirney, A. R. 1976)

— Major exploratory trenches for Pebble Springs Nuclear Project, Gilliam County, Oregon (Farooqui, S. M. 1976)

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— Progress report on Cenozoic correlations, west coast North America (Armentrout, J. M. 1978)

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— Steens Mountain, Oregon (Lund, E. H. 1976)

Changes of level: Quaternary sedimentation and tectonics on Oregon continental slope; active-margin environment (Kulm, L. D. 1978)

Cretaceous: First occurrence, systematics, and functional morphology of Nipponites (Cretaceous *Lytocera*) from the Americas (Ward, P. D. 1977)

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Devonian: Devonian brachiopods and conodonts from central Oregon (Johnson, J. G. 1978)

— Middle Devonian (Givetian) conodonts from central Oregon (Savage, N. M. 1979)

Eocene: A preliminary study of Lookingglass Formation (Eocene) stratigraphy of the northwest quarter of the Dutchman Butte Quadrangle (Koler, Thomas E. 1979)

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— An extinct *Evodia* wood from Oregon (Gregory, I. 1976)

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- Biostratigraphy of the type Weberg Member, Snowshoe Formation, Grant County, Oregon (Taylor, D. G. 1977)
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- Petrology of the Rogue River area, Klamath Mountains, Oregon; problems in the identification of ancient volcanic arcs (Garcia, M. O. 1976)
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- The amphibolite of Briggs Creek; a tectonic slice of metamorphosed oceanic crust in southwestern Oregon? (Coleman, R. G. 1976)
- Maps:* Geologic cross section of the central Oregon continental margin (Snively, P. D., Jr. 1980)
- Mesozoic:* Jurassic radiolarian chert from near John Day, Oregon (Jones, D. L. 1976)
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- Paleomagnetic evidence for clockwise rotation in western Idaho, eastern Oregon, and northern Nevada (Basham, W. L. 1978)
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- Magnetostratigraphy and correlation of Miocene basalts of the northern Oregon coast and Columbia Plateau, Southeast Washington (Choiniere, S. R. 1979)
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- Oligocene:* An exposure of limestone at Gray Butte, Jefferson County, Oregon (Ashwill, M. 1979)
- Bathyal gastropods of the family Turridae in the early Oligocene Kasey Formation in Oregon, with a review of some deep-water genera in the Paleogene of the eastern Pacific (Hickman, C. S. 1976)
- Petrography of selected samples from the Pittsburg Bluff and Cowlitz formations in northwestern Oregon (Van Atta, Robert O. 1976)
- Tectonic rotation of Oligocene intrusive rocks in the Coast Range of Oregon; a constant rate of rotation for the period 50-30 m.y. B.P. (Plumley, P. W. 1977)
- Paleocene:* The age of the "Pilot Rock Flora", Umatilla County, Oregon (Elemendorf, J. 1978)
- Paleogene:* Late Eocene and Oligocene benthonic foraminiferal correlations between California and the Pacific Northwest (Tipton, A. 1977)
- Paleogene planktonic foraminifera from Southwest Oregon (Miles, G. A. 1977)
- Paleozoic:* Paleozoic rocks of eastern Oregon and western Idaho (Vallier, T. L. 1977)
- Pre-Cenozoic tectonic framework, eastern Oregon and western Idaho (Brooks, Howard C. 1976)
- Permian:* Petrology and initial tectonic setting of Permian and Triassic volcanic rocks, northeastern Oregon and western Idaho (Batiza, R. 1976)
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- Pleistocene:* Quaternary geology of the Pacific Northwest (Easterbrook, D. J. 1976)
- Pliocene:* Chabazite in siliceous tuffs of a Pliocene lacustrine deposit near Durkee, Baker County, Oregon (Gude, A. J., III. 1976)
- Petrography of the Rattlesnake Formation at the type area, central Oregon (Enlows, Harold E. 1976)
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- An overview of the state and federal studies in foraminiferal biostratigraphy of the Pacific Northwest Tertiary province (Rau, W. W. 1977)
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- Wood of Tapirira (Anacardiaceae) from the Paleogene Clarno Formation of Oregon (Manchester, S. R. 1977)
- Triassic:** Paleocurrent trends and petrologic variations in Mesozoic strata near South Fork of John Day River, central Oregon (Dickinson, W. R. 1976)
- Paleoecology, structure, and distribution of Triassic coral buildups in western North America (Stanley, G. D., Jr. 1979)
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- Upper Triassic Radiolaria from eastern Oregon and Queen Charlotte Islands, British Columbia (Blome, C. D. 1979)
- Strontium—Geochemistry**
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- Strontium—Isotopes**
- Sr-87/Sr-86:* A tectonic interpretation of strontium isotopic variations in late Cenozoic lavas; Western U.S. (Leeman, W. P. 1979)
- Diagenetic alteration and formation of authigenic minerals in the Miocene "Rome Beds", Southeast Oregon (Campion, K. M. 1979)
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- Structural analysis—Folds**
- Diapirs:* Structure of the Canyon Mountain (Oregon) ophiolite complex and its implication for sea-floor spreading (Ave Lallemand, H. G. 1976)
- Structure of the "Oxbow-Cuprum shear zone," Oregon and Idaho (Schmidt, W. J. 1979)
- Structure of the Vulcan Peak alpine-type peridotite, southwestern Oregon (Loney, R. A. 1976)
- Interference patterns:* Structure of the "Oxbow-Cuprum shear zone," Oregon and Idaho (Schmidt, W. J. 1979)
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- Petrofabrics:* Structure of the Vulcan Peak alpine-type peridotite, southwestern Oregon (Loney, R. A. 1976)
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- Tectonics** *see also* Faults; Folds; Geosynclines; Orogeny; Structural analysis; Structural geology; *see also* under Structural geology under Pacific Coast; Pacific region; Rocky Mountains; Western U.S.
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 - Uranium, thorium, and mercury distribution through the evolution of the McDermitt Caldera complex (Rytuba, J. J. 1979)
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- Late Cenozoic ash-flow tuffs and their vents, eastern Oregon (Walker, G. W. 1976)
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- Volcanology—Volcanoes**
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- Waste disposal—Site exploration**
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- Western U.S.—Economic geology**
- Energy sources:** Northwest Energy Policy Project; institutional constraints and opportunities study module V, report on tasks 4, 5, 6, & 7, final report 1977 (Balmer, D. G. 1977)
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- Impact statements:** Crude oil transportation systems proposed by Northern Tier Pipeline Company, Northwest Energy Company, Kitimat Pipe Line Ltd., Trans Mountain Oil Pipe Line Corporation (Anonymous. 1979)
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- Cenozoic:** Zeolites in sedimentary deposits of the northwestern United States; potential industrial minerals (Sheppard, R. A. 1976)
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- Some Siluro-Devonian biofacies patterns in the western United States (Berry, W. B. N. 1977)
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- Arct. Alp. Res.** Arctic and Alpine Research (Institute of Arctic and Alpine Research). Boulder, Colorado., CODEN: ATLPV.
- Assoc. Eng. Geol., Bull.** Association of Engineering Geologists, Bulletin. Berkeley, California., CODEN: ENGEA.
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- Biol. Soc. Wash., Proc.** Biological Society of Washington, Proceedings. Washington, D.C., CODEN: PBSWAO.
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- Bull. Am. Paleontol.** Bulletins of American Paleontology. Ithaca, New York., CODEN: BAPLAJ.
- Calif. Min. J.** California Mining Journal. Santa Cruz. ISSN: 00081299.
- Can. J. Earth Sci.** Canadian Journal of Earth Sciences (National Research Council of Canada). Ottawa., CODEN: CJESAP.
- Can. Mineral.** Canadian Mineralogist (Mineralogical Association of Canada). Ottawa., CODEN: CAMIA.
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- Econ. Geol.** Economic Geology and the Bulletin of the Society of Economic Geologists. New Haven, Connecticut., CODEN: ECGLA.
- Energy.** Energy. Pergamon Press, Oxford-New York-Frankfurt., CODEN: ENEYDS.
- Eng. Geol. Soils Eng. Symp., Proc.** Engineering Geology and Soils Engineering Symposium, Proceedings. Pocatello, Idaho., CODEN: EGSSB.
- Environ. Geol.** Environmental Geology. Springer-Verlag, New York., CODEN: ENGEDC.
- Eos (Am. Geophys. Union, Trans.).** Eos (American Geophysical Union, Transactions). Washington, D. C., CODEN: EOSTA.
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- Fr., Bur. Rech. Geol. Minieres, Bull. (Ser. 2), Sect. 2.** France, Bureau de Recherches Géologiques et Minières, Bulletin (Serie 2), Section 2, Geologie des Gites Minéraux (formerly France, Bureau de Recherches Géologiques et Minières, Bulletin (Serie 2), Section 2, Geologie Appliquée, Chronique des Mines). Orleans. ISSN: 03009351.
- Gems Gemol.** Gems and Gemology (Gemological Institute of America). Los Angeles., CODEN: GEGEA.
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- Geoderma.** Geoderma, an International Journal of Soil Science. Elsevier Sci. Publ. Co., Amsterdam., CODEN: GEDMAB.
- Geol. Geofiz. (Akad. Nauk SSSR, Sib. Otd.).** Geologiya i Geofizika (Akademiya Nauk SSSR, Sibirskoye Otdeleniye). Novosibirsk., CODEN: GGASAS.
- Geol. Soc. Am., Abstr. Programs.** Geological Society of America, Abstracts with Programs. Boulder, Colorado., CODEN: GAAPB.
- Geol. Soc. Am., Bull.** Geological Society of America, Bulletin. Boulder, Colorado., CODEN: BUGMA.
- Geol. Soc. Am., Map Chart Ser.** Geological Society of America, Map and Chart Series, Boulder, Colorado., CODEN: MSGADL.
- Geol. Soc. Am., Mem.** Geological Society of America, Memoir. Boulder, Colorado., CODEN: GSAMAQ.
- Geol. Soc. Am., Spec. Pap.** Geological Society of America, Special Paper. Boulder, Colorado., CODEN: GSAPA.
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- Geosci. Can.** Geoscience Canada (*supersedes* Geological Association of Canada, Proceedings). Toronto. ISSN: 03150941 CODEN: GSCNAS.
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- Geotimes.** Geotimes (American Geological Institute). Falls Church, Virginia., CODEN: GEOTA.
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- Int. Oil Scouts Assoc., Yearb.** International Oil Scouts Association, Yearbook. Austin, Texas., CODEN: IOSRAN.
- Int. Union Geod. Geophys., Gen. Assem., Abstr.** International Union of Geodesy and Geophysics, General Assembly, Abstracts., CODEN: IGABAX.
- Isochron/West.** Isochron/West; A Bulletin of Isotopic Geochronology. Socorro, New Mexico., CODEN: ISOWAC.
- J. Geol.** Journal of Geology. Chicago, Illinois., CODEN: JGEOAZ.
- J. Geophys. Res.** Journal of Geophysical Research (American Geophysical Union). Washington, D. C., CODEN: JGREA.
- J. Paleontol.** Journal of Paleontology. Tulsa, Oklahoma., CODEN: JPALA.
- J. Res. U. S. Geol. Surv.** Journal of Research of the U. S. Geological Survey. Reston, Virginia., CODEN: JRGSA.
- J. Sediment. Petrol.** Journal of Sedimentary Petrology. Tulsa, Oklahoma. ISSN: 00224472 CODEN: JSEPAK.
- J. Volcanol. Geotherm. Res.** Journal of Volcanology and Geothermal Research. Elsevier Sci. Publ. Co., Amsterdam. ISSN: 03770273 CODEN: JVGRDQ.
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- Mont., Bur. Mines Geol., Spec. Publ.** Montana, Bureau of Mines and Geology, Special Publication. Butte., CODEN: MBGSA.
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- Nature.** Nature. London. ISSN: 00280836 CODEN: NATUAS.
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- Nev. Archeol. Surv.** Nevada Archeological Survey (Nevada, University), Research Paper. Reno.
- Nev. Bur. Mines, Rep.** Nevada Bureau of Mines, Report. Reno. ISSN: 00955264 CODEN: NVMRAT.
- Northwest Geol.** Northwest Geology. University of Montana, Missoula., CODEN: NWGYAR.
- Northwest Sci.** Northwest Science (Northwest Scientific Association). Pullman, Washington., CODEN: NOSCAX.
- Oil and Gas Investigations - State of Oregon, Department of Geology and Mineral Industries.** Portland: State of Oregon, Department of Geology and Mineral Industries.
- Oil Gas Compact Bull.** Oil and Gas Compact Bulletin (Interstate Oil Compact Commission). Oklahoma City., CODEN: OGCBAT.
- Oil Gas J.** Oil and Gas Journal. Tulsa, Oklahoma., CODEN: OIGJAV.
- OMSI Occas. Pap. Nat. Sci.** OMSI (Oregon Museum of Science and Industry) Occasional Papers in Natural Science. Portland. ISSN: 01615130.
- Ore Bin.** Ore Bin. Oregon, Department of Geology and Mineral Industries, Portland., CODEN: ORBIA.
- Oreg. Acad. Sci., Proc.** Oregon Academy of Science, Proceedings. Corvallis., CODEN: PORSAU.
- Oreg., Dep. Geol. Miner. Ind., Bull.** Oregon, Department of Geology and Mineral Industries, Bulletin. Portland., CODEN: OGMBAN.
- Oreg., Dep. Geol. Miner. Ind., Geol. Map Ser.** Oregon, Department of Geology and Mineral Industries, Geological Map Series. Portland.
- Oreg., Dep. Geol. Miner. Ind., Misc. Paper.** Oregon, Department of Geology and Mineral Industries, Miscellaneous Paper. Portland., CODEN: OGIPAB.
- Oreg. Geol.** Oregon Geology (Oregon, Department of Geology and Mineral Industries). Portland. ISSN: 01643304.
- Oreg. Speleol. Surv., Bull.** Oregon Speleological Survey, Bulletin, Vancouver. Washington.
- Oreg., State Univ., Water Resour. Res. Inst., [Rep.] WRI.** Oregon, State University, Water Resources Research Institute, [Report], WRI. Corvallis.
- Oreg., State, Water Resour. Dep., Ground Water Rep.** Oregon, State, Water Resources Department, Ground Water Report. Salem., CODEN: OSEGAE.
- Oregon Geology.** Portland: State of Oregon Department of Geology and Mineral Industries, 1979-. ISSN: 01643304.
- Org. Geochem.** Organic Geochemistry (International Association of Geochemistry and Cosmochemistry, Publication). Pergamon Press, Oxford-New York-Paris. ISSN: 01466380.
- Our Public Lands.** Our Public Lands (U. S., Bureau of Land Management). Washington, D.C. ISSN: 00306940.
- Pac. Coast Paleogeogr. Symp.** Pacific Coast Paleogeography Symposium (Society of Economic Paleontologists and Mineralogists, Pacific Section). Los Angeles.
- Pac. Discovery.** Pacific Discovery (California Academy of Sciences). San Francisco., CODEN: PADIA2.
- Proc. Gold Money Sess. Gold Tech. Sess. - Pac. Northwest Met. Miner. Conf.** Proceedings of Gold and Money Session and Gold Technical Session - Pacific Northwest Metals and Minerals Conference. Portland.
- Proc. Int. Conf. Radiocarbon Dating.** Proceedings of the International Conference [on] Radiocarbon Dating.
- R. Astron. Soc., Geophys. J.** Royal Astronomical Society, Geophysical Journal. Oxford., CODEN: GEOJAN.
- Rev. Eng. Geol. (Geol. Soc. Am.).** Reviews in Engineering Geology (Geological Society of America). Boulder, Colorado., CODEN: GAEGA4.
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- Rock Gem.** Rock and Gem. Behn-Miller Publishers, Encino, California.
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- Seismol. Soc. Am., Bull.** Seismological Society of America, Bulletin. Berkeley, California., CODEN: BSSAAP.
- Shore Beach.** Shore and Beach (American Shore and Beach Preservation Association, Journal). Miami, Florida., CODEN: SHBEAS.
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- Soc. Econ. Paleontol. Mineral., Spec. Publ.** Society of Economic Paleontologists and Mineralogists, Special Publication. Tulsa, Oklahoma., CODEN: SPMIA.
- Soc. Explor. Geophys., Annu. Int. Meet., Abstr.** Society of Exploration Geophysicists, Annual International Meeting, Abstracts., CODEN: SGAMB7.
- South. Calif., Paleontol. Soc., Bull.** Southern California, Paleontological Society, Bulletin. Long Beach. ISSN: 01604937.
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- Speleograph.** The=Speleograph (The National Speleological Society, Oregon Grotto). Portland, Oregon.
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- Transp. Res. Rec.** Transportation Research Record (National Research Council) (*continuation of Highway Research Record*). Washington, D. C., CODEN: TRREDM.
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- U. S. Geol. Surv., Bull.** U. S. Geological Survey, Bulletin. Reston, Virginia., CODEN: XGLBAF.
- U. S. Geol. Surv., Circ.** U. S. Geological Survey, Circular. Reston, Virginia., CODEN: XICIA5.
- U. S. Geol. Surv., Geophys. Invest. Map.** U. S. Geological Survey, Geophysical Investigations Map. Reston, Virginia., CODEN: XGIMAX.
- U. S. Geol. Surv., Misc. Field Stud. Map.** U. S. Geological Survey, Miscellaneous Field Studies Map. Reston, Virginia., CODEN: XMFSDD.
- U. S. Geol. Surv., Misc. Invest. Ser.** U. S. Geological Survey, Miscellaneous Investigations Series. Reston, Virginia., CODEN: MSUSD.
- U. S. Geol. Surv., Open-File Rep.** U. S. Geological Survey, Open-File Report. Reston, Virginia., CODEN: XGROA.
- U. S. Geol. Surv., Prof. Pap.** U. S. Geological Survey, Professional Paper. Washington, D. C., CODEN: XGPPA.
- U. S. Geol. Surv., Water-Resour. Invest.** U. S. Geological Survey, Water-Resources Investigations. [Reston, Virginia]., CODEN: XGWIAN.
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- U. S. NASA, Spec. Publ.** U. S. National Aeronautics and Space Administration, Special Publication. Washington, D. C., CODEN: NSSPAW.
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