

STATE OF OREGON
DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES
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OF OREGON

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BIBLIOGRAPHY OF THE GEOLOGY AND MINERAL RESOURCES OF OREGON

EIGHTH SUPPLEMENT, 1980-1984

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 103 is the eighth 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.

Supplement 7 (D. Burnetti and K.K.E. Neuendorf,
1981), 1976-1979: Bulletin 102.

As in the last two supplements, the bibliography is compiled and indexed on the basis of the database of the GeoRef Information System. For the final compilation and format, however, the Oregon Department of Geology and Mineral Industries and its editor are responsible.

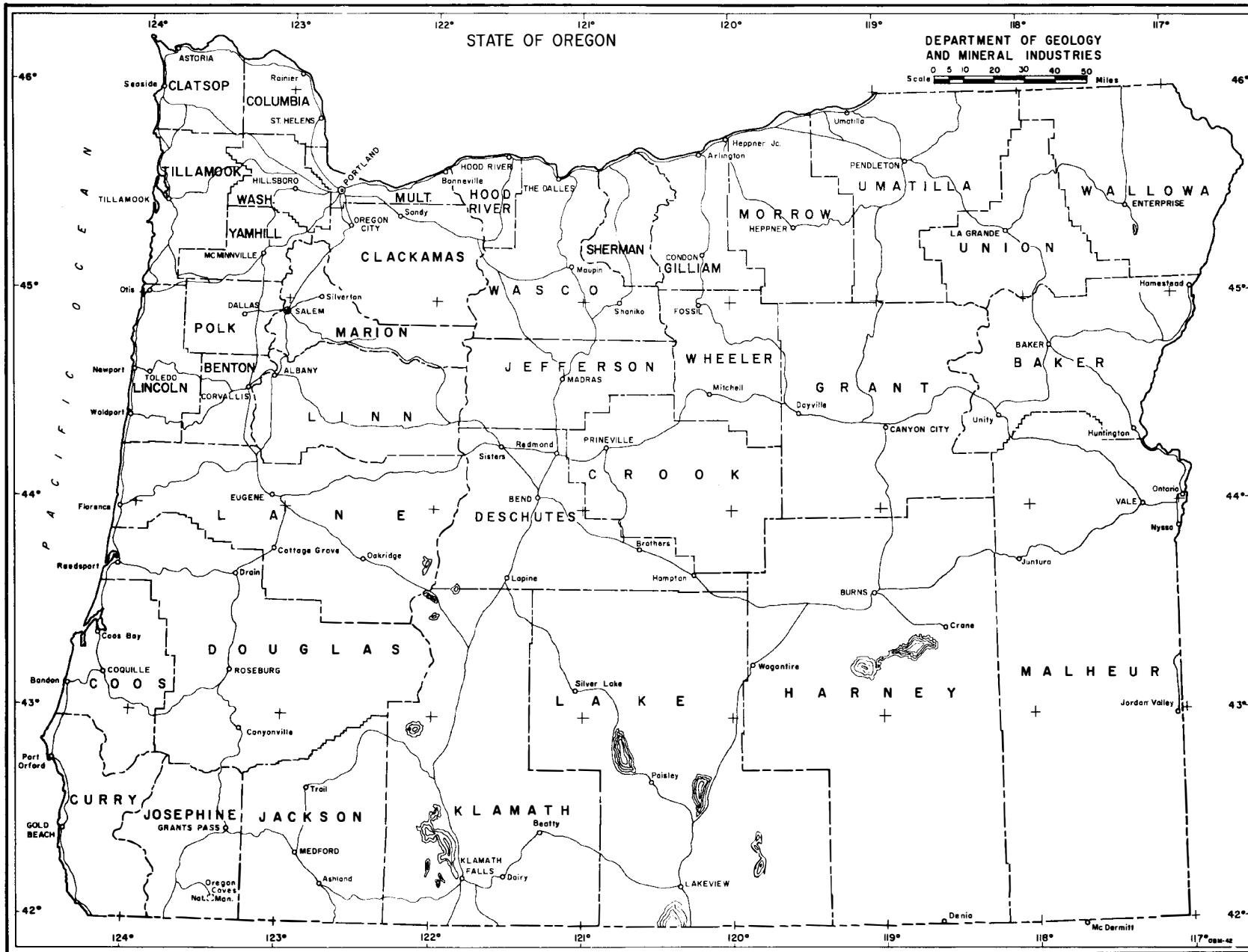
The bibliography is accessible through the author list and subject, county, and rock-unit indexes. For full information on a single reference, always refer back from the indexes to the author list. Abbreviations of serials are explained in the serials list.

Within the author list, all co-authors of multiple-author citations are listed separately, and reference is made to the citation under the name of the primary author. (The limitation of listed authors to three may, in a few cases, make it difficult to identify a co-author listed fourth or thereafter. We apologize for this inconvenience.)

In using the rather extensive subject index, it is advisable to search under as many different subject terms as practical. There are many subject terms for an individual citation, so that the field of the search is likely to be covered somehow, but perhaps not exactly by the terms anticipated.

The availability of some dissertations or theses is indicated by "Univ. Microfilms," which identifies University Microfilms International. Address mail orders to University Microfilms International, Dissertation Copies, P.O. Box 1764, Ann Arbor, Michigan 48106; for telephone orders from within the United States call 1-800-521-3042, from Canada 1-800-343-5299.

Realizing the constraints under which this bibliography has been produced, the editor is aware of its shortcomings and uncertainties. Users 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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- Agnatha—Occurrence**
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Fossil localities: Petrified algae at Oregon Buttes (Spendlove, Earl. 1977)
- Algal flora—Biostratigraphy**
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Tertiary: Cenozoic calcareous nannofossils from Klamath, southern Oregon (Worsley, Thomas R. 1982)
- Alluvium** *see under* Clastic sediments under Sediments
- Aluminum—Geochemistry**
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Quartz: Trace elements in veins of the Bohemia mining district, Oregon (Istas, Laurence Stewart. 1983)
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- Americium—Isotopes**
Am-241: Plutonium and americium export to the North-East Pacific Ocean by Columbia River runoff (Beasley, T. M. 1981)
 — Plutonium, ²⁴¹Am and ¹³⁷Cs ratios, inventories and vertical profiles in Washington and Oregon continental shelf sediments (Beasley, T. M. 1982)
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- Amphibia—Faunal studies**
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- Angiosperm flora—Occurrence**
Cretaceous: Paleontology and paleoecology of the Lance Formation (Maastrichtian), east flank of Rock Springs Uplift, Sweetwater County, Wyoming (Breithaupt, Brent H. 1982)
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Miocene: Angiosperm paleobiochemistry of the Succor Creek flora (Miocene) Oregon, USA (Niklas, Karl J. 1978)
- Angiosperms—Dicotyledoneae**
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- Well-logging:** The analysis, correlation and interpretation of well logs using simple computer techniques; an example from a Tertiary coal field in southwestern Oregon (Titus, Willard S. 1984)
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- Ground water:** Digital simulation of a basalt aquifer system, Walla Walla River basin, Washington and Oregon (MacNish, R. D. 1976)
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- Automatic data processing—Maps**
- Automatic cartography:** Oregon survey of digital requirements of State agencies and select organizations (Ireland, Glenn W. 1984)
- Land use maps:** Well location and land-use mapping in the Columbia Plateau area (Stephan, J. 1979)
- Automatic data processing—**
- Oceanography**
- Continental shelf:** Rhythmic shorelines on the Oregon coast (Garrow, H. C. 1982)
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- Earthquakes:** Estimating the source parameters for a major subduction zone earthquake in the Pacific Northwest (Hartzell, S. H. 1984)
- Elastic waves:** Numerical wave analysis in faulted basins on the CRAY I (Wojcik, G. L. 1982)
- Mantle:** A comparison of upper mantle models for the Cascade Ranges and the Gulf of California (Walck, Marianne C. 1983)
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- Tectonics:** Application of lineament analysis techniques to the Cascade Range (Knepper, Daniel H., Jr. 1983)
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- Crust:** A random medium model of the crustal velocity structure near Mt. Hood, Ore. (Leaver, D. 1982)
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- Basalts:** Major and trace element studies of central High Cascades platform basalts (Hughes, Scott S. 1981)
- Plutonic rocks:** Pre-Tertiary plutonic rocks in the Snake River Canyon, Oregon/Idaho; intrusive roots of a Permo-Triassic arc complex (Walker, Nicholas. 1982)
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- Pelican Lake Preserve:** The geology of Pelican Lake Preserve (Allen, John Eliot. 1984)
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 - Late Cretaceous(?)–Eocene faulting in the East-central Basin and Range (Newman, Gary W. 1979)
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 - Maps:** Map showing zones of similar ages of surface faulting and estimated maximum earthquake size in the Basin and Range Province and selected adjacent areas (Thenhaus, P. C. 1982)
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- Beaches see under Shore features under Geomorphology**
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 - Permian:** Stratigraphic range extensions and coral province affiliations of stony corals in the Lower Permian McLoud Limestone of California (Wilson, Edward C. 1984)
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- Biogeography—Mammalia**
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- Biogeography—Mammals**
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- Calcium—Abundance**
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- Allophane:** Correlation of soil plasticity with amorphous clay constituents (McNabb, D. H. 1979)
- Clays see also under Economic geology**
- Coal see also under Economic geology; see also under Economic geology under Basin and Range Province; Great Plains; Pacific Coast**
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- Basalts:** Major and trace element studies of central High Cascades platform basalts (Hughes, Scott S. 1981)
- Laterites:** Characterization of lateritic nickel ores by electron-optical and X-ray techniques (Chandra, D. 1983)
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- Maps:** Geologic mapping of the Columbia Plateau (Swanson, Donald A. 1982)
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Domes *see under* Style *under* Folds

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- Domes:** A Neogene structural dome in the Klamath Mountains, California and Oregon (Mortimer, N. 1984)
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- Foraminifera—Faunal studies**
- Eocene:** Systematic paleontology and distribution of late Eocene benthic foraminifers from northwestern Oregon and southwestern Washington (McDougall, Kristin. 1981)

- Pleistocene:** Pleistocene foraminiferal faunas, Cape Blanco, southwestern Oregon (McDougall, K. 1980)
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- Carboniferous:** Fusulinid affinities; central California to southern British Columbia (Nestell, Merlynd K. 1981)
- Cenozoic:** Foraminiferal species lists and paleobathymetric interpretations of four southwestern Oregon wells (McKeel, Daniel R. 1980)
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- Paleogene:** Biostratigraphy of exploratory wells in western Coos, Douglas, and Lane Counties, Oregon (McKeel, Daniel R. 1984)
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- Permian:** Biostratigraphy and structural setting of the Permian Coyote Butte Formation of central Oregon (Wardlaw, Bruce R. 1982)
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- Deep-sea environment:** Preliminary geological, geophysical, and biological data from the Gorda Ridge (Clague, David A. 1984)
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- Oligocene:** Oligocene foraminifera in western Oregon (Carter, Kenneth D. 1984)
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- fossils see appropriate fossil group**
- Foundations see also under Engineering geology; Rock mechanics; Soil mechanics**
- Fractures—Style**
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- Geochemistry**
- Adsorption:** Partitioning of trace organics in sediments (Piece, David P. 1981)
- Igneous rocks:** Chemical and isotopic characteristics of late Cenozoic volcanism in the northwestern U.S.A. (Hart, William K. 1982)
- Correlation of St. Helens, Mazama and Glacier Peak ashes using X-ray diffraction (Fritz, Lloyd G. 1972)
 - Petrochemical characteristics of volcanic rocks associated with uranium deposits in the McDermitt caldera complex (Rytuba, James J. 1981)
- Isotopes:** Crater Lake revisited; concentration changes in water column radionuclides, 1967 to 1981 (Volchok, Herbert L. 1983)
- Isotopic constraints on Columbia River flood basalt genesis and the nature of the subcontinental mantle (Carlson, Richard W. 1984)
 - Lead isotope data from the Columbia River Basalt Group; evidence for a layered upper mantle (Church, S. E. 1982)
 - Lead isotopes in the "Cascades mineral belt", Washington and Oregon (LeHuray, A. P. 1983)
 - Stable isotope systematics in Mesozoic granites of central and northern California and southwestern Oregon (Masi, U. 1981)
- Lava:** Depletion of incompatible trace elements in successively erupted groups of lavas at Battle Ax Mountain, Cascade Range, Oregon (White, Craig M. 1983)
- Lithium:** Lithium reconnaissance of southern Oregon (Davis, J. R. 1976)
- Major elements:** Icelandite and aenigmatite-bearing pantellerite from the McDermitt caldera complex, Nevada-Oregon (Wallace, A. B. 1980)
- Icelandite from the McDermitt caldera complex, Nevada-Oregon (Wallace, A. B. 1980)
- Maps:** Geochemical map and rock and stream-sediment data from the Wild Rogue Wilderness, Coos and Curry Counties, Oregon (Peterson, James A. 1983)
- Geochemical map of the Mount Hood Wilderness, Clackamas and Hood River Counties, Oregon (Keith, T. E. C. 1982)
 - Geochemical survey of the western part of the Ochoco National Forest, Crook and Wheeler Counties, Oregon (Ferns, Mark L. 1983)
 - Map showing geochemical characteristics of rock samples from the Kalmiopsis Wilderness, southwestern Oregon (Carlson, C. A. 1982)
- Organic materials:** Lignin signature of aquatic humic substances (Ertel, John R. 1984)
- The decomposition of organic matter in an anoxic estuarine environment (Powell, H. 1980)
- Radioactivity:** Spectrographic, chemical, and radio-activity analyses of rock, stream sediment, and soil samples from the Hell's Canyon study area, Wallowa County, Oregon, and Idaho and Adams Counties, Idaho (McDonald, S. K. 1983)
- Sedimentary rocks:** Provenance of Eocene graywackes of the Flournoy Formation near Agness, Oregon; a geochemical approach (Peterman, Zell E. 1981)
- Sediments:** Decomposition of organic matter in estuarine sediments by sulfate reduction; a field study from Yaquina Bay and sediment incubation experiments (Powell, Heidi Sara. 1980)
- The Columbia River sediment studies (Humphreys, L. L. 1963)
- Sulfur:** Intertidal sulfur cycling (Minter, David. 1981)
- Surface water:** Geochemistry of surface waters in the Pacific Northwest (Dethier, David P. 1981)
- Surveys:** Geochemical analyses of rock and stream-sediment samples from the North Fork Smith River Roadless Area, Del Norte County, California, and Curry County, Oregon (Gray, Floyd. 1982)
- Geochemical data for rock, stream sediment, and panned concentrate samples, Mount Hood Wilderness area, Oregon (Keith, T. E. C. 1980)
- Thermochemical properties:** Solution thermochemistry of humic substances; acid-base equilibria of river water humic substances (Perdue, E. M. 1979)
- Trace elements:** A geochemical study of the Rhododendron and

- Dalles Formations in the area of Mount Hood, Oregon (Gannett, Marshall W. 1982)
- A stratigraphic and geochemical investigation of ferruginous bauxite deposits in the Salem Hills, Marion County, Oregon (Hoffman, Charles William. 1981)
 - Analytical results for stream sediments, panned concentrates from stream sediments, and rock samples from the Homestead, Lake Fork, and Lick Creek Roadless Areas, Baker and Wallowa Counties, Oregon (Evans, J. G. 1983)
 - Chemical and isotope data on well discharges of the Klamath Falls geothermal system (Janik, C. J. 1984)
 - Columbia River volcanism; the question of mantle heterogeneity or crustal contamination (Carlson, R. W. 1981)
 - Geochemical analyses of rock and stream-sediment samples from the Wild Rogue Wilderness Area, Coos, Curry, and Douglas Counties, Oregon (Gray, Floyd. 1982)
 - Geochemical variations within an ancient island arc, southwestern Oregon (Johnson, M. G. 1980)
 - Geochronology, geochemistry, and petrogenesis of basaltic rocks from the western Cascades, Oregon (Lux, Daniel R. 1981)
 - Geophysical and geochemical analyses of selected Miocene coastal basalt features, Clatsop County, Oregon (Pfaff, Virginia Josette. 1981)
 - Imnaha Basalt, Columbia River Basalt Group (Hooper, P. R. 1984)
 - Petrochemical evolution of High Cascade volcanic rocks in the Three Sisters region, Oregon (Hughes, Scott Stevens. 1983)
 - Petrology and geochemistry of igneous rocks from the McDermitt caldera complex, Nevada-Oregon, and Adak Island, Alaska; evidence for crustal development (Conrad, Walter Karr. 1983)
 - Petrology and geochemistry of the North Fork Stock, Blue Mountains, northeastern Oregon (Matty, D. J. 1980)
 - Petrology and regional setting of peridotite and gabbro of the Canyon Mountain Complex, northeast Oregon (Mullen, Ellen D. 1983)
 - Seven Devils terrane; is it really a piece of Wrangellia? (Sarewitz, Daniel. 1983)
 - Stratigraphic relationships of the Tillamook Volcanics and the Cowlitz Formation in the upper Nehalem River-Wolf Creek area, northwestern Oregon (Jackson, Michael Keith. 1983)
 - Structure and influence of the Tillamook uplift on the stratigraphy of the Mist area, Oregon (Kadri, Moinoddin Mur-tuzamiya. 1982)
 - The geology and petrology of Three Fingered Jack, a High Cascade volcano in central Oregon (Davie, Ellen Ingraham, II. 1981)
 - The Sparta ophiolite complex, northeast Oregon; a plutonic equivalent to low K₂O island-arc volcanism (Phelps, D. 1980)
 - 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)
 - Trace elements in veins of the Bohemia mining district, Oregon (Istas, Laurence Stewart. 1983)
 - Uranium contents of glassy and devitrified andesites and dacites, Mount Mazama, Oregon (Noble, D. C. 1980)
 - Volcanism and structure in the vicinity of Echo Mountain, central Oregon Cascade Range (Avramenko, Walter. 1981)
- Water:** Radionuclides in Columbia River and Columbia River estuary (Haushild, W. H. 1965)
- Strontium-90 and caesium-137 in Columbia River plume, July 1964 (Park, Kilho. 1965)
- Geochemistry—Experimental studies**
- Isotopes:* Geologic systems as analogs for long-term radioactive waste isolation (Wollenberg, Harold A. 1983)
- Geochemistry—Processes**
- Adsorption:* Cadmium adsorption by aerobic lake sediments (Wiley, John O. 1984)
- Characterization of natural chabazite and 5A synthetic zeolites; Part II, Adsorption properties and porosity (Stakebake, J. L. 1984)
 - Influence of organic matter on the geotechnical properties and consolidation characteristics of northern Oregon continental slope sediments (McDonald, William P. 1983)
- Devitrification:* Geology, geochemistry and hydrothermal alteration, Glass Buttes, southeast Oregon (Berri, Dulcy A. 1982)
- Fractionation:* Geochemistry of post-glacial dacites from Mt. Hood, Oregon (White, Craig M. 1980)
- Hydration:* Obsidian hydration dating of volcanic events (Friedman, Irving. 1981)
- Reduction:* Decomposition of organic matter in estuarine sediments by sulfate reduction; a field study from Yaquina Bay and sediment incubation experiments (Powell, Heidi Sara. 1980)
- Solution:* Leaching characteristics of ash from the May 18, 1980, eruption of Mount St. Helens Volcano, Washington (Smith, D. B. 1982)
- Geochemistry—Properties**
- Thermochemical properties:* Solution thermochemistry of humic substances; acid-base equilibria of river water humic substances (Perdue, E. M. 1979)
- Geochemistry—Surveys**
- Basin and Range Province:* Geochemical maps of uranium, thorium, and thorium-uranium in granites of the Basin and Range province (McNeal, J. M. 1980)
- California:* Geochemical analyses of rock and stream-sediment samples from the North Fork Smith River Roadless Area, Del Norte County, California, and Curry County, Oregon (Gray, Floyd. 1982)
- Nevada:* Geochemical evaluation of the mineral and geothermal resources of the Charles Sheldon Wilderness Study Area, Nevada and Oregon (Cathall, J. B. 1984)
- Regional:* Analytical data for the Hells Canyon Study Area, Wallowa County, Oregon, and Idaho and Adams Counties, Idaho (Simmons, George C. 1984)
- Analytical results and sample locality maps for stream-sediment, oxalic-acid-leachate, panned-concentrate, and rock samples from the Kalmiopsis Wilderness, Curry and Josephine Counties, Oregon (Grimes, D. J. 1983)
 - Analytical results for stream sediments, panned concentrates from stream sediments, and rock samples from the Homestead, Lake Fork, and Lick Creek Roadless Areas, Baker and Wallowa Counties, Oregon (Evans, J. G. 1983)
 - Analytical results of stream-sediment samples from the Medford 1° by 2° quadrangle, Oregon-California (Whittington, Charles L. 1983)
 - Baker Quadrangle, Oregon and Idaho (Bernardi, M. L. 1982)
 - Baker 1° × 2° NTMS area, Oregon and Idaho; data report (abbreviated); hydrogeochemical and stream sediment reconnaissance (Cook, J. R. 1981)
 - Geochemical analyses for platinum group elements in rock samples from the Kalmiopsis Wilderness, southwestern Oregon (Carlson, R. R. 1982)
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 - Geochemical data for rock, stream sediment, and panned concentrate samples, Mount Hood Wilderness area, Oregon (Keith, T. E. C. 1980)
 - Geochemical map and rock and stream-sediment data from the Wild Rogue Wilderness, Coos and Curry Counties, Oregon (Peterson, James A. 1983)
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 - Geochemical survey of the western part of the Ochoco National Forest, Crook and Wheeler Counties, Oregon (Ferns, Mark L. 1983)
 - Geophysical and geochemical investigations at Mt. Hood, Oregon (Goldstein, N. E. 1980)
 - Hydrogeochemical and stream sediment detailed geochemical survey for Lakeview, Oregon (Butz, T. R. 1980)
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 - Map showing geochemical characteristics of rock samples from the Kalmiopsis Wilderness, southwestern Oregon (Carlson, C. A. 1982)
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- Geochronology** *see also* Absolute age
- Geochronology**
- Absolute age:* Index to K-Ar age determinations for the State of Oregon (Fiebelkorn, R. B. 1982)
- Index to K-Ar determinations for the State of Oregon (Fiebelkorn, Robin B. 1983)
 - Radiometric ages of Oregon and Washington through June, 1972 (Laursen, Jennie McKee. 1973)
 - The Canyon Mountain Complex, Oregon; U-Pb ages of zircons and possible tectonic correlations (Walker, Nicholas W. 1980)
- Cenozoic:* Correlation and ages of Cenozoic chronostratigraphic units in Oregon and Washington (Armentrout, John M. 1981)
- K-Ar ages of basalts from south-central and southeastern Oregon (Hart, William K. 1982)
 - K-Ar ages of late Cenozoic basalts from southeastern Oregon, southwestern Idaho, and northern Nevada (Hart, William K. 1983)
- Eocene:* Stratigraphy, lithofacies and depositional environment of the Cowlitz Formation, T. 4 and 5 N., R. 5 W., northwest Oregon (Timmons, Dale M. 1981)
- Holocene:* A 13,000 year record of Holocene secular variation from Fish Lake, Steens Mountain, southeastern Oregon (Verosub, Kenneth L. 1981)
- Applications of Box-Jenkins methods of time series analysis to the reconstruction of drought from tree rings (Meko, David Michael. 1981)

- Dating the history of Holocene Barrier Beach Formation; Clatsop Plains, Oregon (Rankin, David K. 1983)
- Holocene geologic history of the Clatsop Plains foredune ridge complex (Rankin, David Karl. 1983)
- ²¹⁰Pb geochronology, Upper Klamath Lake, Oregon (Martin, E. A. 1983)
- Jurassic:** Paleomagnetism of Jurassic plutons in the central Klamath Mountains, southern Oregon and northern California (Schultz, Karin L. 1983)
- Mesozoic:** New K-Ar dates from the Wild Rogue Wilderness, southwestern Oregon (Gray, Floyd. 1981)
- Miocene:** A complete vectorial description of the geomagnetic field during a polarity transition (Prevot, M. 1982)
- A geochemical study of the Rhododendron and Dalles Formations in the area of Mount Hood, Oregon (Gannett, Marshall W. 1982)
- Basalt aquifer characteristics, ground water ages and their effect upon large scale ground water withdrawal in the Columbia Plateau region, Oregon (Oberlander, Phil. 1982)
- Palynology and age of the Alvord Creek Formation, Steens Mountain, southeastern Oregon (Barnett, Stephen F. 1984)
- The stratigraphy, petrology, and paleomagnetism of the Moss Flat area, Lake County, Oregon (Oliveira, Jose Auto Lancaster. 1981)
- Neogene:** K-Ar ages of rhyolites from the western Snake River Plain area, Oregon, Idaho, and Nevada (Hart, William K. 1983)
- K-Ar dates for volcanic rocks associated with Neogene sedimentary deposits in north-central and northeastern Oregon (Bunker, Russell C. 1982)
- Oligocene:** An important lower Oligocene welded-tuff marker bed in the western Cascade Range of southern Oregon (Smith, J. G. 1980)
- Palynology and age of the Alvord Creek Formation, Steens Mountain, southeastern Oregon (Barnett, Stephen F. 1984)
- Pleistocene:** Multiparameter relative dating (RD) techniques applied to moraine sequences along the eastern Sierra Nevada, California, and Wallawa Lake area, Oregon (Burke, Raymond Merle. 1979)
- Pliocene:** Late Miocene and early Pliocene basaltic rocks and their implications for crustal structure, northeastern California and South-central Oregon (McKee, Edwin H. 1983)
- Quaternary:** Energy-dispersive X-ray fluorescence analysis as a rapid method for identifying tephra (Cormie, A. B. 1983)
- Inter- and intrageneric trends in apparent racemization kinetics of amino acids in Quaternary mollusks (Lajoie, Kenneth R. 1980)
- Mono Lake geomagnetic excursion found at Summer Lake, Oregon (Negrini, Robert M. 1984)
- ²¹⁰Pb geochronology and trace metal concentrations of sediments from upper Klamath Lake and Lake Euwana, Oregon (Martin, E. A. 1981)
- Tertiary:** Geochronology, geochemistry, and petrogenesis of basaltic rocks from the western Cascades, Oregon (Lux, Daniel R. 1981)
- K-Ar ages of plutonism and mineralization, western Cascades, Oregon and southern Washington (Power, S. G. 1981)
- K-Ar and ⁴⁰Ar-³⁹Ar ages of mid-Tertiary volcanic rocks from the western Cascade Range, Oregon (Lux, Daniel R. 1982)
- Potassium argon dates concerning the Tertiary foraminiferal time scale and San Andreas Fault displacement (Turner, Donald Lloyd. 1968)
- Geochronology—Fission-track dating**
 - Applications:** Dating methods of Pleistocene deposits and their problems; V, Teprochronology and fission-track dating (Westgate, J. A. 1980)
- Geochronology—Hydration of glass**
 - Experimental studies:** Durability of rhyolitic obsidian glass inferred from hydration dating research (Erickson, J. E. 1981)
 - Obsidian:** Obsidian hydration dating of volcanic events (Friedman, Irving. 1981)
- Geochronology—Paleomagnetism**
 - Magnetostratigraphy:** Magnetostratigraphy of sediments in the Atlantic Coastal Plain and Pacific Coast of the United States as an aid for dating tectonic deformation (Liddicoat, J. C. 1981)
 - Mono Lake geomagnetic excursion found at Summer Lake, Oregon (Negrini, Robert M. 1984)
 - Stratigraphy and petrogenesis of the Grande Ronde Basalt from the deep canyon country of Washington, Oregon, and Idaho (Reidel, S. P. 1983)
 - The stratigraphy, petrology, and paleomagnetism of the Moss Flat area, Lake County, Oregon (Oliveira, Jose Auto Lancaster. 1981)
 - Pole positions:** Biostratigraphy of Quaternary marine invertebrate faunas, coastal northern California and southern Oregon (Kennedy, G. L. 1980)
 - Secular variations:** A 13,000 year record of Holocene secular variation from Fish Lake, Steens Mountain, southeastern Oregon (Verosub, Kenneth L. 1981)
 - Volcanoes:** A magnetic investigation of Mt. Hood, Oregon (Williams, D. L. 1979)
- Geochronology—Racemization**
 - Amino acids:** Aminostratigraphy and faunal correlations of late Quaternary marine terraces, Pacific Coast, USA (Kennedy, George L. 1982)
 - Inter- and intrageneric trends in apparent racemization kinetics of
- amino acids in Quaternary mollusks (Lajoie, Kenneth R. 1980)
- Shells:** Geochemistry of amino acids in shells of the clam *Saxidomus* (Kvenvolden, Keith A. 1980)
- Temperature aspects of late Quaternary marine molluscan faunas (Kennedy, G. L. 1980)
- Geochronology—Tephrochronology**
 - Applications:** Dating methods of Pleistocene deposits and their problems; V, Teprochronology and fission-track dating (Westgate, J. A. 1980)
 - Case studies:** Tephrochronology and its application to problems in New-World archaeology (Steen-McIntyre, Virginia. 1981)
 - Glaciation:** Reconnaissance study of Holocene glacier fluctuations in the Broken Top area, Oregon (Dethier, D. P. 1980)
 - Key beds:** An important lower Oligocene welded-tuff marker bed in the western Cascade Range of southern Oregon (Smith, J. G. 1980)
 - Pleistocene:** Pleistocene pyroclastic deposits from eruptions of Mount Jefferson, Oregon (Beget, James E. 1982)
 - Pyroclastics:** Correlation techniques in tephra studies (Westgate, John A. 1981)
 - Energy-dispersive X-ray fluorescence analysis as a rapid method for identifying tephra (Cormie, A. B. 1983)
 - Volcanic ash:** Holocene volcanism in the conterminous United States and the role of silicic volcanic ash layers in correlation of latest-Pleistocene and Holocene deposits (Sarna-Wojcicki, Andrei M. 1983)
 - Use of tephrochronology in the Quaternary geology of the United States (Porter, Stephen C. 1981)
- Geochronology—Time scales**
 - Cenozoic:** Correlation and ages of Cenozoic chronostratigraphic units in Oregon and Washington (Armentrout, John M. 1981)
 - Holocene:** A high-precision calibration of the AD radiocarbon time scale (Stuiver, Minze. 1982)
 - Paleogene:** Correlation of Pacific Coast Paleogene stratotypes with the worldwide time scale (Armentrout, John M. 1980)
 - Tertiary:** Potassium argon dates concerning the Tertiary foraminiferal time scale and San Andreas Fault displacement (Turner, Donald Lloyd. 1968)
- Geochronology—Tree rings**
 - Applications:** Applications of Box-Jenkins methods of time series analysis to the reconstruction of drought from tree rings (Meko, David Michael. 1981)
- Geochronology—Varves**
 - Glacial lakes:** Correlation of Alaskan varve thickness with climatic parameters, and use in paleoclimatic reconstruction (Perkins, James A. 1983)
- Geodesy—Surveys**
 - Pacific Coast:** Active deformation of the Pacific Northwest continental margin (Adams, John. 1984)
 - Regional:** Active tilting of the Oregon and Washington coastal ranges (Adams, J. 1980)
 - Geodetic evidence for active landward tilting of the Oregon and Washington coastal ranges (Reilinger, Robert. 1982)
- Geologic hazards see also under Engineering geology; Environmental geology; see also under Engineering geology under Basin and Range Province; Chile; Pacific Coast; see also under Environmental geology under Pacific Coast; Pacific Ocean**
- Geologic hazards—Landslides**
 - Watersheds:** Mathematical modeling approach for delineating landslide hazards in watersheds (Ward, Timothy J. 1979)
- Geology—History**
 - Geologists:** Robert Hooke and the foundation of geology; a comparison of Steno and Hooke and the Hooke imprint on the Huttonian theory. The tectonic evolution of the Oregon continental margin; rotation of segment boundaries and possible space-time relationships in the central High Cascades (Drake, Ellen Tan. 1981)
 - Practice:** Pioneer geologists of southwestern Oregon (Baldwin, E. M. 1980)
- Geomorphology see also Glacial geology**
- Geomorphology**
 - Changes of level:** Depositional environments of some Pleistocene coastal terrace deposits, southwestern Oregon; case history of a progradational beach and dune sequence (Hunter, Ralph E. 1980)
 - Eolian features:** Oblique dunes of Oregon coast (Richmond, Bruce M. 1981)
 - Stabilization of the I-84 sand dune (Anonymous. 1983)
 - The northern Great Basin region (McKenzie, Don. 1982)
 - Fluvial features:** Changes in large organic debris in forested streams, western Oregon (Lienkaemper, G. W. 1980)
 - Effect of aggradation and degradation on bar structure in natural gravel channels, northern California and southern Oregon (Lisle, Thomas E. 1981)
 - Effect of sediment transport and flow regulation on the ecology of gravel-bed rivers (Milhous, R. T. 1982)
 - Giant river channel forms of Portland, Oregon (Palmer, Leonard. 1982)
 - Recovery of aggraded stream channels at gauging stations in northern California and southern Oregon (Lisle, T. E. 1981)
 - The geomorphic significance of log steps in forest streams (Marston, Richard A. 1982)
 - The geomorphic significance of log steps in forest streams of the Oregon Coast Range (Marston, Richard Alan. 1980)

- The history of the Columbia River (Hodge, Edwin T. 1981)
- Glacial geology:** Oregon's southernmost glacier named for hypothermia expert (Anonymous. 1981)
- Periglacial landforms, Aneroid Lake, Wallowa Mountains, Oregon (Hammond, B. R. 1984)
- Periglacial landforms near Aneroid Lake, Wallowa Mountains, Oregon (Hammond, Benjamin R. 1984)
- Reconnaissance study of Holocene glacier fluctuations in the Three Sisters area, Oregon (Dethier, David P. 1980)
- Guidebook:** Central Oregon's volcanic wonderland and how it came to be (Keen, Ruth Hopson. 1982)
- Lacustrine features:** Oregon lakes and their origins (Allen, John Eliot. 1984)
- Pluvial Fort Rock Lake, Lake County, Oregon (Allison, Ira S. 1979)
- Landform description:** Field trip guide; Geomorphology and hydrology in the H. J. Andrews Experimental Forest, western Cascades (Swanson, F. J. 1980)
- Geology of the Columbia Basin (Scott, W. Frank. 1980)
- Historical significance of the Clackamas River terraces (Duvall, D. 1980)
- Washington, Oregon and Nevada (Vreeland, Robert H. 1983)
- Landform evolution:** Comments on geomorphology in ecosystem studies (Swanson, F. J. 1979)
- Tectonic controls of topographic development within Columbia River basalt in a portion of the Grande Ronde River-Blue Mountains region, Oregon and Washington (Ross, M. E. 1980)
- Maps:** Compilation of a reconnaissance surface geologic map of Oregon underlain by Columbia River basalt (Farooqui, Saleem M. 1983)
- Maps showing landforms of the Umpqua South area, the Oregon Dunes National Recreation Area, Oregon (Alpha, T. R. 1980)
- Physiographic diagram of the Seven Devils Mountains and Hells Canyon, Idaho and Oregon (Alpha, T. R. 1982)
- Reconnaissance surficial geologic map of the Medford 1° by 2° quadrangle, Oregon-California (Moring, Barry. 1983)
- Mass movements:** Studies in bedrock lithology and the nature of downslope movement (Savina, Mary Elizabeth. 1982)
- Processes:** Episodes of aggradation observed at nine gaging stations in northern California and southern Oregon (Lisle, T. E. 1980)
- Erosion research in the Coniferous Forest Biome (Swanson, Frederick J. 1976)
- Relationships between morphometric attributes of nivation hollows and topography on Hart Mountain, Oregon (Rademacher, Christopher L. 1981)
- Shore features:** Beach processes and erosion problems on the Oregon coast (Komar, Paul D. 1980)
- Distribution of beach sediment near the Columbia River (Ballard, Ronald Lee. 1964)
- Morphological evolution of a coastal dune field (Wilde, Steven L. 1981)
- Oregon coastal salt marsh upper limits and tidal datums (Frenkel, R. E. 1981)
- Storm-controlled oblique dunes of the Oregon coast (Hunter, Ralph E. 1983)
- The capes and headlands of the northern Oregon coast (Allen, John Eliot. 1984)
- The erosion of Siletz Spit, Oregon (Komar, Paul D. 1983)
- Solution features:** An introduction to caves of the Bend area; guidebook of the 1982 NSS Convention (Larson, Charles V. 1982)
- Benjamin Lake Cave (Larson, Charlie. 1982)
- Caves along the West Coast (Anonymous. 1982)
- Descriptions of central Oregon caves; with special emphasis on ice caves (Larson, Charles V. 1982)
- Diamond Craters recommended as an outstanding natural area (Benedict, E. M. 1980)
- Geology of central Oregon (Chitwood, Lawrence A. 1982)
- Guide to the scenic geology of Boca Cave (Shafer, D. 1980)
- Mount St. Helens update (Halliday, William R. 1982)
- Mount St. Helens wanderings (Senger, Clyde M. 1982)
- Rattlesnake Cave (Larson, C. 1980)
- Redmond Caves are little known (Taylor, Becky. 1980)
- Squaw Ridge rift system (Skinner, Craig. 1980)
- The caves of Crater Lake National Park (Allen, John Eliot. 1984)
- Traversing Oregon and looping into Washington; post '82 convention trip (Benedict, Ellen M. 1982)
- Unmasked cave leads; III, The Lower Falls (McKenzie River) Cave (Skinner, Craig. 1983)
- Volcanic features:** A field trip to the maar volcanoes of the Fort Rock-Christmas Lake Valley basin, Oregon (Heiken, G. H. 1981)
- Crater Lake, gem of the Cascades; the geological story of Crater Lake National Park (Cranson, K. R. 1980)
- Diamond Craters given an official name and boundaries (Benedict, Ellen M. 1982)
- Facets of diamond craters (Benedict, Ellen M. 1980)
- Jordan Craters, Oregon (Hagen, David. 1983)
- Open vertical volcanic conduits; the structure and speleogenesis of an unusual volcanic cave form with examples from the Oregon High Cascades (Skinner, Craig. 1982)
- Pseudokarst in Portland, OR (Allen, John Eliot. 1984)
- Speculations on Oregon calderas; II (Allen, John Eliot. 1982)
- Speleoliferous lava flows associated with the Brothers and subsidiary fault zones of central and southeastern Oregon (Benedict, Ellen M. 1982)
- Stratovolcanoes of Costa Rica and Oregon; physiography compared (Carson, Robert J. 1980)
- The Catlin Gabel lava tubes of West Portland; remnants of a Plio-Pleistocene cave system (Allen, John Eliot. 1982)
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- The Derrick lava tube system; Oregon's third longest? (Skinner, Craig. 1983)
- The lava caves of central Oregon (Yuskavitch, Jim. 1980)
- The Squaw Ridge lava field; new central Oregon territory for the desert-loving lava tube hunter (Skinner, Craig. 1982)
- Geomorphology—Applications**
- Ecosystems:** Comments on geomorphology in ecosystem studies (Swanson, F. J. 1979)
- Geomorphology—Environment**
- Ecology:** Geomorphology and ecosystems (Swanson, Frederick J. 1980)
- Geomorphology—Eolian features**
- Deserts:** Origin and evolution of deserts in the Basin and Range and the Colorado Plateau provinces of western North America (Wells, S. G. 1982)
- The Great Basin (Fowler, Don. 1982)
- The northern Great Basin region (McKenzie, Don. 1982)
- Dunes:** Oblique dunes of Oregon coast (Richmond, Bruce M. 1981)
- Stabilization of the I-84 sand dune (Anonymous. 1983)
- Geomorphology—Erosion features**
- Scarps:** The engineering properties of alluvial/colluvial fault scarp soils in the western Basin and Range, and their influence on fault scarp morphology/dating (Prokop, Christopher Jon. 1983)
- Geomorphology—Fluvial features**
- Bars:** Effect of aggradation and degradation on bar structure in natural gravel channels, northern California and southern Oregon (Lisle, Thomas E. 1981)
- Bed forms:** Bedforms and sediment transport in the Columbia River estuary (Sherwood, Christopher R. 1981)
- Sedimentary environments in the Columbia River estuary (Roy, E. H. 1981)
- Channel geometry:** Giant river channel forms of Portland, Oregon (Palmer, Leonard. 1982)
- Recovery of aggraded stream channels at gauging stations in northern California and southern Oregon (Lisle, T. E. 1981)
- Sediment deposition in the Columbia and lower Cowlitz Rivers Washington-Oregon, caused by the May 18, 1980, eruption of Mount St. Helens (Haeni, F. P. 1983)
- Drainage basins:** Dolya lednikovogo stoka v formirovaniy gidroenergeticheskikh resursov reki Kolumbii—Contribution of glacier runoff to hydroelectric power generation on the Columbia River (Tengborn, W. V. 1980)
- Soil-geomorphic relationships in the western margin of the Willamette Valley, Oregon (Glasman, J. R. 1980)
- Floodplains:** Geomorphology, alluvial stratigraphy, and sediments; lower Siuslaw and Alsea River valleys, Oregon (Feiereisen, Joseph John. 1981)
- Gorges:** Intracanyon flows of the Columbia River Basalt Group in the lower Columbia River Gorge and their relationship to the Troutdale Formation (Tolan, Terry L. 1984)
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- Interpretation:** Central Oregon's volcanic wonderland and how it came to be (Keen, Ruth Hopson. 1982)
- Lava flows:** Jordan Craters, Oregon (Hagen, David. 1983)
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- Stratovolcanoes:** Stratovolcanoes of Costa Rica and Oregon; physiography compared (Carson, Robert J. 1980)
- Volcanoes:** The Mt. Hood region; volcanic history, structure, and geothermal energy potential (Williams, David L. 1982)

Geophysical methods

Geophysical methods *see also* Geophysical surveys

Geophysical methods—

Electromagnetic methods

Applications: Airborne electromagnetic surveys of the Cascade Range, western United States (Fraser, D. C. 1983)

Interpretation: Interpretation of long-line time-domain electromagnetic data from northwestern United States (Skokan, Catherine K. 1980)

Geophysical methods—

Magnetotelluric methods

Instruments: Magnetotelluric measurements (Clarke, John. 1981)

Geophysical methods—Methods

Applications: Chromite geophysics (Wynn, J. C. 1978)

Interpretation: Interpretation of shallow electrical features from electromagnetic and magnetotelluric surveys at Mount Hood, Oregon (Goldstein, N. E. 1982)

- The inversion of magnetic and gravity anomalies and the depth to Curie isotherm (Hong, Ming-Ren. 1982)

Geophysical methods—Seismic methods

Applications: Search for geothermal heat sources in the Oregon Cascades by means of teleseismic P-residual technique (Iyer, H. M. 1983)

Geophysical surveys *see* Acoustical surveys *under* Geophysical surveys *under* Pacific Coast; Pacific Ocean; *see* Earth-current surveys *under* Geophysical surveys; *see* Electrical surveys *under* Geophysical surveys; *see* Electrical surveys *under* Geophysical surveys *under* Mineral exploration; Pacific Ocean; *see* Electromagnetic surveys *under* Geophysical surveys; *see* Electromagnetic surveys *under* Geophysical surveys *under* Pacific Coast; *see* Gravity surveys *under* Geophysical surveys; *see* Gravity surveys *under* Geophysical surveys *under* Basin and Range Province; Pacific Coast; Pacific Ocean; *see* Infrared surveys *under* Geophysical surveys; *see* Infrared surveys *under* Geophysical surveys *under* Automatic data processing; Pacific Coast; *see* Magnetic surveys *under* Geophysical surveys; *see* Magnetic surveys *under* Geophysical surveys *under* Basin and Range Province; Columbia Plateau; Pacific Coast; Pacific Ocean; *see* Magnetotelluric surveys *under* Geophysical surveys; *see* Magnetotelluric surveys *under* Geophysical surveys *under* Columbia Plateau; Pacific Coast; *see* Seismic surveys *under* Geophysical surveys; *see* Seismic surveys *under* Geophysical surveys *under* Basin and Range Province; Pacific Coast; Pacific Ocean; *see* Surveys *under* Geochemistry; Geophysical surveys; Soils; *see* Surveys *under* Geophysical surveys *under* Automatic data processing; Basin and Range Province; Mineral exploration; Pacific Coast; Pacific Ocean; *see also* Geophysical methods

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Paleomagnetism: Paleomagnetism of basalts in northeastern Oregon and west-central Idaho (Martin, Barton S. 1984)

Petrology: Contrasting styles of basaltic volcanism; Chilcotin (British Columbia) and Columbia River Basalt Groups (Bevier, Mary Lou. 1983)

- Preliminary description of basalt from the southern Juan de Fuca Ridge (Eaby, J. S. 1982)

- Tertiary volcanic and intrusive rocks on the Oregon and Washington continental shelf (Snaveley, P. D., Jr. 1984)

- The structure, stratigraphy and correlation of the Grande Ronde Basalts on Tygh Ridge, Wasco County, Oregon (Vandiver-Powell, Lorraine. 1981)

Pillow structure: Effects of thermal melt history on textures of Grande Ronde Columbia River pillow basalts (Schiffman, Peter. 1981)

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

Strain geometry: Strain geometry and mechanical fold model for a multilayered basalt sequence folded at the Earth's surface (Price, Edwin H. 1981)

Tholeiite: Deposition and deformation of the Eocene Umpqua Group, Sutherlin area, south-western Oregon (Perttu, R. K. 1980)

- Late Cenozoic volcanic geology of the Jordan Valley area, S.E. Oregon (Hart, William K. 1980)

- Source mixing; an example from basalts of the northwestern U.S. (Hart, William K. 1981)

Volcanic rocks: The lava caves of central Oregon (Yuskavitch, Jim. 1980)

Igneous rocks—Carbonatites

Genesis: Crystal settling in carbonatites (Treiman, A. H. 1981)

Igneous rocks—Composition

Calc-alkalic composition: Geology and petrology of Gearhart Mountain; a study of calc-alkaline volcanism east of the Cascades in Oregon (Brikowski, Tom Harry. 1983)

Mafic composition: Petrology of mafic rocks from the Canyon Mountain ophiolite complex (Leeman, William P. 1983)

Mineral composition: Mineralogy of the Old Maid Flat geothermal exploratory hole No. 7A, Mount Hood, Oregon (Holdaway, M. J. 1982)

Igneous rocks—Dacites

Petrology: Geochemistry of post-glacial dacites from Mt. Hood, Oregon (White, C. M. 1980)

Rhyodacite: The Unity Reservoir rhyodacite tuff-breccia and associated volcanic rocks, Baker County, Oregon (Reef, John W. 1983)

Igneous rocks—Diorites

Plagiogranite: The Sparta ophiolite complex, northeast Oregon; a plutonic equivalent to low K₂O island-arc volcanism (Phelps, D. 1980)

Trondhjemite: Petrology, geochemistry and origin of the Sparta quartz diorite-trondhjemite complex, northeastern Oregon (Phelps, D. 1979)

Igneous rocks—Distribution

Correlation: The Western Cascade-High Cascade transition in the McKenzie Bridge area, central Oregon Cascade Range (Flaherty, Gerard Martin. 1981)

Outcrops: Map showing outcrops of granitic rocks and pre-Quaternary ash-flow tuffs, Basin and Range Province, Oregon (Jenness, Jane E. 1984)

Igneous rocks—Gabbros

Complexes: Petrography and geochemistry of the Illinois River gabbros, Kalmiopsis wilderness area, southwestern Oregon (Nicholson, Suzanne Warner. 1981)

Composition: A petrographic and petrochemical comparison of exotic gabbroic inclusions of the Sudbury sublayer and Nipissing Diabase-Sudbury Gabbro (Hambury, Patricia Melling. 1982)

- Genesis:** Differentiation of a gabbro sill in the Oregon Coast Range by crystallization-zone settling (MacLeod, N. S. 1981)
- Igneous rocks—Genesis**
- Absolute age:** Petrogenetic implications from trends at Glass Buttes, central Oregon (Johnson, Michael J. 1984)
- Igneous rocks—Geochemistry**
- Alteration:** The Cenozoic geology and alteration at Neals-Bully Creek, Oregon (Lenney, Thomas William. 1980)
- Isotopes:** Areal extent and isotope geochemistry of the Steens Mountain flood basalt, southeastern Oregon (Carlson, Richard W. 1983)
- Geochemical and isotopic inferences on the nature of the crust and mantle; northwestern U.S.A. (Hart, W. K. 1982)
- Strontium isotopic study of a basalt rhyodacite contact, Robin Hood Quarry, northern Oregon (Brookins, Douglas. 1984)
- Trace elements:** Correlation techniques in tephra studies (Westgate, John A. 1981)
- Petrology of gabbro and peridotite of the Canyon Mountain Complex, Northeast Oregon (Mullen, Ellen D. 1983)
- Statistical analysis of thematic mapper simulator data for the geobotanical discrimination of rock types in southwest Oregon (Morrissey, Leslie A. 1983)
- The nature and evolution of the eastern margin of the Seven Devils volcanic arc; a piece of Wrangellia? (Sarewitz, Daniel. 1982)
- Volcanic episodicity and Tertiary absolute motions in the Pacific Northwest (McElwee, K. R. 1982)
- Igneous rocks—Glasses**
- Obsidian:** Collecting obsidian at Glass Butte (McGuire, Catherine. 1980)
- Durability of rhyolitic obsidian glass inferred from hydration dating research (Erickson, J. E. 1981)
- Glass domes at Round Top Butte, Glass Buttes silicic complex, south-central Oregon (Cummings, Michael L. 1984)
- Hydrogen isotope fractionation during degassing of rhyolitic magma (Taylor, B. E. 1983)
- Obsidian hydration dating of volcanic events (Friedman, Irving. 1981)
- Igneous rocks—Granites**
- Composition:** Petrology and major element geochemistry of albite granite near Sparta, Oregon (Almy, Robert, III. 1977)
- Fractionation:** Stable isotope systematics in Mesozoic granites of central and northern California and southwestern Oregon (Masi, U. 1980)
- Geochemistry:** Map showing the oxygen isotope composition of granitoid rocks of the Basin-Range Province (Lee, D. E. 1981)
- Oxygen isotope systematics of Basin and Range granites (Lee, D. E. 1981)
- Petrology:** Map showing geologic, geophysical, and geochemical characteristics of granitic plutons in the Medford 1° by 2° quadrangle, Oregon-California (Page, N. J. 1983)
- Igneous rocks—Peridotites**
- Alteration:** The geology of josephinite in the Josephine Peridotite, southwest Oregon (Leavell, Daniel Nelson. 1983)
- Complexes:** Geology of the igneous complex at Tincup Peak, Kalmiopsis Wilderness Area, southwestern Oregon (Gray, Floyd. 1982)
- Composition:** Metal alloys in the Josephine Peridotite; a comparison of in-situ and nugget examples (Leavell, Daniel N. 1983)
- Noble gases in josephinite (Bernatowicz, T. J. 1979)
- Prograde metamorphism of serpentinites in the western Paleozoic and Triassic belt, Klamath Mountains Province (Medaris, L. G., Jr. 1980)
- Distribution:** Geological and geophysical studies of chromite deposits in the Josephine Peridotite, northwestern California and southwestern Oregon (U. S. Geological Survey. 1984)
- Petrology:** Spinel peridotites of the Gold Beach area, southwestern Oregon (Henry, Darrell James. 1976)
- Remote sensing:** Mapping ultramafic rock using Landsat data; the Josephine Peridotite, Oregon and California (Harding, David J. 1984)
- Spinel peridotite:** Application of pyroxene and olivine-spinel geothermometers to spinel peridotites in southwestern Oregon (Henry, D. J. 1980)
- Igneous rocks—Petrology**
- Alteration:** Geology and alteration of Bear Creek Butte, central Oregon (Wilkening, R. Matthew. 1984)
- Complexes:** Geology of the igneous complex of Tincup Peak, Kalmiopsis wilderness area, southwestern Oregon (Gray, Floyd. 1980)
- Petrology of the Rogue River island-arc complex, southwest Oregon (Garcia, Michael O. 1982)
- Composition:** The geology and geochemistry of the North Fork Stock, northeastern Oregon (Matty, David Joseph. 1979)
- Igneous rocks—Plutonic rocks**
- Absolute age:** K-Ar ages of plutonism and mineralization, western Cascades, Oregon and southern Washington (Power, S. G. 1981)
- Geochemistry:** Petrology and geochemistry of the North Fork Stock, Blue Mountains, northeastern Oregon (Matty, D. J. 1980)
- Petrology:** Pre-Tertiary plutonic rocks in the Snake River Canyon, Oregon/Idaho; intrusive roots of a Permo-Triassic arc complex (Walker, Nicholas. 1982)
- Igneous rocks—Properties**
- Physical properties:** Igneous rocks in the Basin and Range Province as potential host rocks for high-level radioactive waste disposal (Sargent, K. A. 1982)
- Igneous rocks—Pyroclastics**
- Ash-flow tuff:** Cooling units and composite sheets in relation to caldera structure (Christiansen, R. L. 1979)
- High Cascade ash-flow tuffs and pumice deposits in the vicinity of Bend, Oregon (Taylor, E. M. 1980)
- Imbrication, flow direction and possible source areas of the pumice-flow tuffs near Bend, Oregon, U.S.A. (Mimura, Koji. 1984)
- Peralkaline ash flow tuffs and calderas of the McDermitt volcanic field, southeast Oregon and north-central Nevada (Rytuba, James J. 1984)
- Ash flows:** Geochemistry of post-glacial dacites from Mt. Hood, Oregon (White, Craig M. 1980)
- Composition:** Divergent magmas at Crater Lake, Oregon; products of fractional crystallization and vertical zoning in a shallow, water-undersaturated chamber (Ritchey, J. L. 1980)
- Geology and geochemistry of selected cinder cones, Crater Lake National Park, Oregon (Prueher, Libby. 1984)
- Distribution:** Guide to geologic field trip between Kimberly and Bend, Oregon with emphasis on the John Day Formation (Robinson, Paul T. 1981)
- Maps showing distribution, thickness, and mass of late Pleistocene and Holocene tephra from major volcanoes in the Pacific Northwest of the United States; a preliminary assessment of hazards from volcanic ejecta to nuclear reactors in the Pacific Northwest (Shipley, Susan. 1983)
- Roadlog for geologic field trip between Kimberly and Bend, Oregon with emphasis on the John Day Formation (Robinson, Paul T. 1981)
- Genesis:** The reinterpretation of Leone Lake Sediments as a pyroclastic surge deposit and its tectonic significance (McDonough, William F. 1984)
- Ignimbrite:** Petrography of the Rattlesnake Formation at the type area, central Oregon (Enlows, Harold E. 1976)
- Three newly recognized occurrences of Rattlesnake Ignimbrite in central Oregon (Smith, Gary. 1984)
- Lithostratigraphy:** Dalles Group; Neogene formations overlying the Columbia River Basalt group in North-central Oregon (Farooqui, Saleem M. 1981)
- Properties:** Pleistocene pyroclastic deposits from eruptions of Mount Jefferson, Oregon (Beget, James E. 1982)
- Pumice:** A study of the chemical and physical characteristics of pumice from Glacier Peak, Washington and Mt. Mazama (Crater Lake), Oregon; report of progress, June 16-September 7, 1963 (Steen, Virginia C. 1964)
- Scoria:** The Scoria Cone pit crater and its uncollapsed relatives, Crater Lake National Park, Oregon (Mertzman, Stanley A. 1980)
- Textures:** Explosive volcanism; a possible source for aggregate formation on Mars (Fink, Jonathan. 1980)
- Tuff:** Cenozoic ash-flow tuffs of Oregon (Walker, George W. 1970)
- John Day Formation of Oregon; a distal record of early Cascade volcanism (Robinson, Paul T. 1984)
- Petrology of the Bend Pumice & Tumalo Tuff; a Pleistocene Cascade eruption involving magma mixing (Hill, Brittain E. 1984)
- Volcanic ash:** A paleoecological study of the northern Great Basin or rat amber, tephra, fossil pollen (Benedict, Ellen M. 1982)
- Correlation of St. Helens, Mazama and Glacier Peak ashes using X-ray diffraction (Fritz, Lloyd G. 1972)
- Downwind tephra from Mount St. Helens before 1980 (Smith, Henry W. 1982)
- Holocene volcanism in the conterminous United States and the role of silicic volcanic ash layers in correlation of latest-Pleistocene and Holocene deposits (Sarna-Wojcicki, Andrei M. 1983)
- Leaching characteristics of ash from the May 18, 1980, eruption of Mount St. Helens Volcano, Washington (Smith, D. B. 1982)
- Mount St. Helens volcanic-ash fall in the Bull Run watershed, Oregon, March-June 1980 (Shulters, M. V. 1981)
- The paleolimnology of Bull Run Lake; disruption and stability in a natural system (Raymond, Richard Brian. 1983)
- Volcanic ash beds as stratigraphic markers in the Glens Ferry and Chalk Hills Formations from Adrian, Oregon, to Bruneau, Idaho (Swiryczuk, Krystyna. 1982)
- Welded tuff:** Welded tuffs deformed into megareomorphic folds during collapse of the McDermitt Caldera, Nevada-Oregon (Hargrove, Howard R. 1984)
- Igneous rocks—Rhyolites**
- Composition:** Drake Peak; a structurally complex rhyolite center in southeastern Oregon (Wells, R. E. 1980)
- Hydrothermal alteration:** Geology and hydrothermal alteration, Glass Buttes, southeast Oregon (Berri, Dulcy Annette. 1982)
- Igneous rocks—Ultramafics**
- Chromitite:** Platinum-group minerals in alpine chromitites from southwestern Oregon (Stockman, Harlan W. 1984)
- Composition:** Statistical analysis of thematic mapper simulator data

for the geobotanical discrimination of rock types in southwest Oregon (Morrisey, Leslie A. 1984)

Distribution: Geobotanical discrimination of ultramafic parent materials; an evaluation of remote sensing techniques (Mouat, D. A. 1982)

Lherzolite: Lherzolitic and wehrlitic rock series at Tincup Peak, Klamath Mountains, southwestern Oregon (Gray, F. 1980)

Mineral composition: Wyrddite; petrogenesis of an extraordinary mining assemblage (Burton, James Hutson, III. 1981)

Ophiolite: A depositional contact between the Galice Formation and a Late Jurassic ophiolite in northwestern California and southwestern Oregon (Harper, Gregory D. 1983)

— A possible ophiolite sequence at Frenchy Butte, Oregon (Hansen, Renate. 1982)

— An island arc origin for the Canyon Mountain ophiolite complex, eastern Oregon, U.S.A. (Gerlach, David C. 1981)

— Inclined sheeted dikes and discordant igneous layering in the Josephine Ophiolite; evidence for large-scale rotations at spreading centers (Harper, G. D. 1980)

— Jurassic ophiolite belt of western North America; age relationships and their tectonic implications (Mattinson, James M. 1980)

— Massive sulfide deposits in ophiolitic terrain, northern Klamath Mountains, Oregon and California (Koski, R. A. 1980)

— Middle to Late Jurassic tectonic evolution of the Klamath Mountains, California-Oregon (Harper, Gregory D. 1984)

— Petrology and regional setting of peridotite and gabbro of the Canyon Mountain Complex, northeast Oregon (Mullen, Ellen D. 1983)

— Petrology of ultramafic and gabbroic rocks of the Canyon Mountain ophiolite, Oregon (Himmelberg, G. R. 1980)

— Sheeted dikes of the Wild Rogue Wilderness, Oregon (Ramp, Len. 1980)

— Sonobuoy refraction study of the crust in the Gorda Basin (Cook, Jeffrey A. 1981)

— Stratigraphy and inferred tectonic framework of lower Paleozoic rocks in the eastern Klamath Mountains, northern California (Potter, A. W. 1977)

— Structures of the ophiolite massifs from Canyon Mountain (Oregon) and Wadi Tayin (Oman); island arc lithosphere, oceanic lithosphere (Misseri, Maxime. 1982)

— U-Pb dating of sphene from ophiolites (Mattinson, James M. 1980)

— U-Pb geochronology of ophiolitic and volcanic-plutonic arc terranes, northeastern Oregon and westernmost-central Idaho (Walker, Nicholas W. 1981)

— ^{40}Ar - ^{39}Ar ages of some pre-Tertiary plutonic and metamorphic rocks of eastern Oregon and their geologic relationships (Ave Lallemant, H. G. 1980)

Igneous rocks—Volcanic rocks

Absolute age: Geology, geochemistry, and geothermal resources of the Old Maid Flat area, Oregon (Priest, George R. 1982)

— K-Ar and ^{40}Ar - ^{39}Ar ages of mid-Tertiary volcanic rocks from the western Cascade Range, Oregon (Lux, Daniel R. 1982)

— K-Ar dates for volcanic rocks associated with Neogene sedimentary deposits in north-central and northeastern Oregon (Bunker, Russell C. 1982)

Alteration: Electron microscopic examination of zeolitization and cooling devitrification in silicic volcanic rocks (Tarshis, Andrew Lorie. 1982)

— Volcanic stratigraphy and alteration mineralogy of drill cuttings from EWEB 5 drill hole, Clackamas County, Oregon (Keith, T. E. C. 1981)

— Volcanic stratigraphy and alteration mineralogy of drill cuttings from EWEB 6 drill hole, Clackamas County, Oregon (Keith, T. E. C. 1981)

— Volcanic stratigraphy and secondary mineralization of USGS Pucci geothermal test well, Mount Hood, Oregon (Gannett, M. W. 1981)

Calc-alkalic composition: Petrology of the Cenozoic volcanic rocks of the basal Clarno Formation, central Oregon (Wilson, P. McD. 1973)

Composition: A stratigraphically controlled variation in whole rock and mineral chemistry in the subalkaline and peralkaline volcanic rocks of Hart Mountain, Oregon (Brenneman, Robert J. 1983)

— Mineralogical studies of the hydrothermal system in Newberry Volcano drill Hole 2, Oregon (Keith, Terry E. C. 1984)

— Overview of the geology and geothermal resources of the Mount Hood area, Oregon (Priest, George R. 1982)

— Petrology and geochemistry of igneous rocks from the McDermitt caldera complex, Nevada-Oregon, and Adak Island, Alaska; evidence for crustal development (Conrad, Walter Karr. 1983)

— The mineralogy and petrology of compositionally zoned ash flow tuffs, and related silicic volcanic rocks, from the McDermitt Caldera complex, Nevada-Oregon (Conrad, Walter K. 1984)

Distribution: Central High Cascade roadside geology; Bend, Sisters, McKenzie Pass, and Santiam Pass, Oregon (Taylor, Edward M. 1981)

— High Lava Plains, Brothers fault zone to Harney Basin, Oregon (Walker, George W. 1981)

— Map showing distribution, composition, and age of late Ceno-

zoic volcanic centers in Oregon and Washington (Luedke, R. G. 1982)

— Newberry Volcano, Oregon (MacLeod, Norman S. 1981)

— Roadlog for central High Cascade geology; Bend, Sisters, McKenzie Pass, and Santiam Pass, Oregon (Taylor, Edward M. 1981)

— Roadlog for High Lava Plains, Brothers fault zone to Harney Basin, Oregon (Walker, George W. 1981)

— Roadlog for Newberry Volcano, Oregon (MacLeod, Norman S. 1981)

Genesis: A petrologic and tectonic comparison of the Hell's Canyon area, Oregon-Idaho, and Vancouver Island, British Columbia (Scheffler, Joanna March. 1983)

— Geology and petrogenesis of Gearhart Mountain, an andesitic volcano in the Basin and Range Province of Oregon (Brikowski, Tom H. 1983)

— Geology and petrology of the Yamsay Mountain Complex, South-central Oregon; a study of bimodal volcanism (Hering, Carl William. 1981)

— Petrologic evolution of the Clarno Formation, Oregon (Noblett, J. B. 1980)

Geochemistry: Chemical and isotopic characteristics of late Cenozoic volcanism in the northwestern U.S.A. (Hart, William K. 1982)

— Geology and geochemistry of volcanic rocks in the Detroit area, Western Cascade Range, Oregon (White, Craig McKibben. 1980)

— Icelandite and aenigmatite-bearing pantellerite from the McDermitt caldera complex, Nevada-Oregon (Wallace, A. B. 1980)

— Icelandite from the McDermitt caldera complex, Nevada-Oregon (Wallace, A. B. 1980)

— Petrochemical evolution of High Cascade volcanic rocks in the Three Sisters region, Oregon (Hughes, Scott Stevens. 1983)

— 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, thorium, and other metal associations in silicic volcanic complexes of the northern Basin and Range, a preliminary report (Walker, G. W. 1981)

Hydrothermal alteration: Geology, alteration and mineralization of a silicic volcanic center, Glass Buttes, Oregon (Johnson, Michael James. 1984)

Imagery: Thermal infrared imagery of the Cascade Range volcanics (Ginsberg, I. William. 1982)

Lithostratigraphy: Geology of the Cougar Reservoir area, Lane County, Oregon (Priest, George R. 1981)

— Late Cenozoic volcanic stratigraphy of the Jordan Valley area, southeastern Oregon (Hart, William K. 1983)

— Problems in the regional stratigraphy of the Strawberry Volcanics (Wheeler, Greg. 1982)

— Structural geology of the southeast quarter of the Dutchman Butte quadrangle, Oregon (Black, Gerald Lee. 1979)

— The interpretive geology of Cove Palisades State Park and its environs (Shafer, David S. 1981)

— Volcanic stratigraphy and alteration mineralogy of drill cuttings from EWEB 1 drill hole, Linn County, Oregon (Keith, T. E. C. 1981)

— Volcanic stratigraphy and alteration mineralogy of drill cuttings from EWEB 2 drill hole, Linn County, Oregon (Keith, T. E. C. 1981)

— Volcanic stratigraphy and alteration mineralogy of drill cuttings from EWEB 3 drill hole, Clackamas County, Oregon (Keith, T. E. C. 1980)

— Volcanic stratigraphy and alteration mineralogy of drill cuttings from EWEB 4 drill hole, Clackamas County, Oregon (Keith, T. E. C. 1980)

Mafic composition: Implications of volcano-tectonic patterns in the Oregon Cascades for geothermal exploration (Priest, George R. 1982)

Magnetic properties: Magnetic models of volcanic terrane; accounting for the effects of topography (Blakely, Richard J. 1982)

— Some aspects of magnetic viscosity in subaerial and submarine volcanic rocks (Prevot, M. 1981)

— The stratigraphy, petrology, and paleomagnetism of the Moss Flat area, Lake County, Oregon (Oliveira, Jose Auto Lancaster. 1981)

Petrology: Geology and petrology of South Sister Volcano, High Cascade Range, Oregon (Clark, James Gregory. 1983)

— Geology of the Cougar Reservoir area, Lane County, Oregon (Priest, George R. 1982)

— Geology of the Lookout Point area, Lane County, Oregon (Woller, Neil M. 1982)

— Geology of the Swift Creek area, Lane County, Oregon (Woller, Neil M. 1982)

— Geology of the Whitehorse Caldera and caldera-fill deposits, Malheur County, Oregon (Rytuba, J. J. 1981)

— Igneous rocks near Marial, Rogue River, southwestern Oregon (Gullixson, C. F. 1980)

— Late Pleistocene summit construction and Holocene flank eruptions of South Sister Volcano, Oregon (Wozniak, K. C. 1981)

— Overview of the geology and geothermal resources of the central Oregon Cascades (Priest, George R. 1982)

— Petrology of the basic inclusions of the andesites and dacite domes of Crater Lake, Oregon (Jacobson, Sara Sue. 1978)

- Preliminary geology of the Outerson Mountain-Devils Creek area, Marion County, Oregon (Priest, George R. 1982)
- The Cascade Province (McBirney, A. R. 1982)
- Volcanic rocks of the McDermitt Caldera, Nevada-Oregon (Greene, R. C. 1976)
- Volcanism and geotectonics of the U. S. northwestern continental margin; Oregon and Washington (Loeschke, Joerg. 1980)
- Phase equilibria:** The stability of amphibole in andesite and basalt at high pressures (Allen, J. C. 1983)
- Pleistocene:** Open vertical volcanic conduits; the structure and speleogenesis of an unusual volcanic cave form with examples from the Oregon High Cascades (Skinner, Craig. 1982)
- Properties:** Volcanic and volcanoclastic rocks on the east flank of the central Cascade Range to the Deschutes River, Oregon (Taylor, Edward M. 1980)
- Uranium ores:** Geology and uranium deposits along the northeastern margin, McDermitt caldera complex, Oregon (Wallace, Andy B. 1981)
- Geology of the Aurora uranium prospect, Malheur County, Oregon (Roper, Michael W. 1981)
- Geology of the Lakeview uranium district, Oregon (Berry, Michael R. 1981)
- Petrochemical characteristics of volcanic rocks associated with uranium deposits in the McDermitt caldera complex (Rytuba, James J. 1981)
- Ignimbrite** see under Pyroclastics under Igneous rocks
- Impact statements** see also under Environmental geology
- Inclusions** see also Fluid inclusions
- Inclusions—Mineral inclusions**
- Andesites:** A model for the origin of calc-alkaline andesites at Crater Lake, Oregon (Pinta, James, Jr. 1981)
- Inclusions—Observations**
- Volcanic rocks:** Petrology of the basic inclusions of the andesites and dacite domes of Crater Lake, Oregon (Jacobson, Sara Sue. 1978)
- Inclusions—Xenoliths**
- Andesite:** Diatremes in Columbia River basalt near the crest of the west escarpment of the Grande Ronde Graben, northeast Oregon (Taubeneck, W. H. 1980)
- Gabbros:** A petrographic and petrochemical comparison of exotic gabbroic inclusions of the Sudbury sublayer and Nipissing Diabase-Sudbury Gabbro (Hanbury, Patricia Melling. 1982)
- Metamorphic rocks:** Tectonic inclusions in serpentinites (Coleman, R. G. 1980)
- Industrial minerals** see also under Economic geology; see also under Economic geology under Basin and Range Province
- Inert gases** see Noble gases
- Infrared surveys** see under Geophysical surveys; see under Geophysical surveys under Automatic data processing; Pacific Coast
- Intrusions—Batholiths**
- Absolute age:** K-Ar ages of plutonism and mineralization, western Cascades, Oregon and southern Washington (Power, S. G. 1981)
- Aureoles:** Geology, ground water chemistry, and hydrogeology of the Murphy area, Josephine County, Oregon (Mack, Gregory Stebbins. 1983)
- Contact metamorphism:** The geology of the contact zone of the Wallowa Batholith near Aneroid Lake, Oregon (Reich, David E. 1984)
- Intrusions—Diatremes**
- Extent:** Diatremes in Columbia River basalt near the crest of the west escarpment of the Grande Ronde Graben, northeast Oregon (Taubeneck, W. H. 1980)
- Intrusions—Dikes**
- Composition:** Chemical and mineralogic variations within four dikes of the Columbia River Basalt Group, southeastern Columbia Plateau (Ross, M. E. 1983)
- Emplacement:** Geology of the Cougar Reservoir area, Lane County, Oregon (Priest, George R. 1981)
- Ophiolite:** Inclined sheeted dikes and discordant igneous layering in the Josephine Ophiolite; evidence for large-scale rotations at spreading centers (Harper, G. D. 1980)
- Intrusions—Emplacement**
- Zoning:** Petrology and major element geochemistry of albite granite near Sparta, Oregon (Almy, Robert, III. 1977)
- Intrusions—Evolution**
- Emplacement:** Crustal thickening of the Blue Mountain island arc, northeastern Oregon and western Idaho (Vallier, T. L. 1980)
- Intrusions—Layered intrusions**
- Comb layering:** Origin of comb layering in the Willow Lake Intrusion, N.E. Oregon (Carpenter, Paul Kenneth. 1983)
- Intrusions—Pipes**
- Breccia pipes:** K-Ar ages of plutonism and mineralization, Western Cascades, Oregon and southern Washington; additional information (Power, S. G. 1981)
- Intrusions—Plutons**
- Absolute age:** Paleomagnetism of Jurassic plutons in the central Klamath Mountains, southern Oregon and northern California (Schultz, Karin L. 1983)
- Age:** Preaccretion and postaccretion plutonic belts in allochthonous terranes of the Klamath Mountains, California and Oregon (Irwin, William P. 1983)
- The "tops" of porphyry copper deposits; mineralization and plutonism in the western Cascades, Oregon (Power, Sara Glen. 1984)
- Distribution:** Interpretation of gravity anomalies observed in the Cascade Mountain Province of northern Oregon (Braman, David E. 1981)
- Geochemistry:** Strontium isotopic variations in western Idaho and eastern Oregon and Washington (Fleck, Robert J. 1983)
- Granitic composition:** New data on vergence and tectonic history in the Klamath Mountains (Roure, Francois. 1983)
- Maps:** Map showing geologic, geophysical, and geochemical characteristics of granitic plutons in the Medford 1° by 2° quadrangle, Oregon-California (Page, N. J. 1983)
- Orientation:** Tilted plutons in the Klamath Mountains (Barnes, C. G. 1983)
- Intrusions—Sills**
- Composition:** Geology of the igneous complex at Tincup Peak, Kalmiopsis Wilderness Area, southwestern Oregon (Gray, Floyd. 1982)
- Crystallization:** Differentiation of a gabbro sill in the Oregon Coast Range by crystallization-zone settling (MacLeod, N. S. 1981)
- Intrusions—Stocks**
- Country rocks:** Thermal metamorphism of Northwest coals associated with igneous intrusions (Beeson, Dale C. 1981)
- Emplacement:** The geology and geochemistry of the North Fork Stock, northeastern Oregon (Matty, David Joseph. 1979)
- Petrology:** Petrology and geochemistry of the North Fork Stock, Blue Mountains, northeastern Oregon (Matty, D. J. 1980)
- Intrusions—Structure**
- Magnetic anomalies:** Big Craggies ultramafic body, Oregon (Blakeley, R. J. 1980)
- Invertebrata** see also Echinodermata; Foraminifera; Ichnofossils; Mollusca; Porifera; Radiolaria
- Invertebrates—Biostratigraphy**
- Cenozoic:** Late Cenozoic marine invertebrate faunas and biostratigraphy, northwest California and southwest Oregon (Roth, B. 1980)
- Quantitative paleoecology of selected Cenozoic microfossil assemblages from the Pacific Northwest (Albanese, James R. 1973)
- Jurassic:** Jurassic shallow marine invertebrate depth zones, with exemplification from the Snowshoe Formation, Oregon (Taylor, David G. 1982)
- Quaternary:** Biostratigraphy of Quaternary marine invertebrate faunas, coastal northern California and southern Oregon (Kennedy, G. L. 1980)
- Tertiary:** Life during the Deschutes time (Gamer, Robert L. 1983)
- Triassic:** Limestone units within the Triassic Wild Sheep Creek Formation of the Snake River canyon (Grant, Philip Robert. 1980)
- Invertebrates—Ecology**
- Deep-sea environment:** Preliminary geological, geophysical, and biological data from the Gorda Ridge (Clague, David A. 1984)
- Invertebrates—Paleoecology**
- Oligocene:** Oregon western Cascades Oligocene biofacies (Orr, William N. 1983)
- Iridium—Abundance**
- Clay:** Asteroid extinction hypothesis (Kent, Dennis V. 1981)
- Iron—Abundance**
- Water:** Factors contributing to the maintenance of oligotrophy in an alpine glacial moraine lake (Wallowa Lake) in northeast Oregon (Larson, Douglas W. 1981)
- Iron—Geochemistry**
- Feldspar group:** Spectroscopic and chemical study of the coloration of feldspars by irradiation and impurities, including water (Hofmeister, Anne Marie. 1984)
- Ground water:** Chemical transport in ground water beneath an inactive uranium mill tailings, Riverton, Wyoming (White, Art F. 1982)
- Chemistry of ground waters associated with the Grants Pass Batholith, Klamath Mountains, OR (Mack, Gregory S. 1982)
- Water:** Iron geochemistry and distribution in a coastal dunes aquifer, Coos Bay, Oregon (Luzier, J. E. 1982)
- Isostasy** see also under Tectonophysics; see also under Tectonophysics under Basin and Range Province
- Isotope dating** see Absolute age
- Isotopes** see also Absolute age; Geochronology
- Isotopes—Abundance**
- Radioactive isotopes:** Distribution of radioactive marine sediment derived from the Columbia River (Gross, M. Grant. 1966)
- Ecological studies of radioactivity in the Columbia River and adjacent Pacific Ocean (Osterberg, Charles L. 1965)
- Preliminary report on the sediments and radioactivity in the vicinity of the Columbia River effluent (Gross, M. Grant. 1963)
- Radionuclides in Columbia River and Columbia River estuary (Haushild, W. H. 1965)
- Sinking rates of radioactive fallout particles in the North East Pacific Ocean, 1961-62 (Gross, M. Grant. 1967)
- The effluent of the Columbia River as a source of radioactivity (Osterberg, Charles. 1963)
- Radioactive waste:** Radioactivity of the Columbia River effluent (Gross, M. Grant. 1965)
- Isotopes—Basalts**
- Ratios:** "Columbia River volcanism; the question of mantle heterogeneity or crustal contamination" (reply to a comment by D. J. DePaolo) (Carlson, R. W. 1983)
- Comment on "Columbia River volcanism; the question of mantle heterogeneity or crustal contamination" by R. W. Carlson, G. W. Lugmair and J. D. Macdougall (DePaolo, Donald J. 1983)

Isotopes

Isotopes—Cesium

Cs-137: Strontium-90 and caesium-137 in Columbia River plume, July 1964 (Park, Kilho. 1965)

Isotopes—Curium

Cm-243: $^{243,244}\text{Cm}$ in Columbia River sediments (Beasley, T. M. 1980)

Isotopes—Ground water

Analysis: Chemical and isotopic data for water from thermal springs and wells of Oregon (Mariner, R. H. 1980)

Ratios: Geochemistry of active geothermal systems in the northern Basin and Range Province (Mariner, Robert H. 1983)

— Geochemistry of thermal and mineral waters in the Cascade Mountains of western North America (Forcella, Lauren S. 1982)

Stable isotopes: Chemical and isotope data on well discharges of the Klamath Falls geothermal system (Janik, C. J. 1984)

Isotopes—Hydrogen

D/H: Geochemistry of active geothermal systems in the northern Basin and Range Province (Mariner, R. H. 1983)

Isotopes—Igneous rocks

Basalts: Geochemical study of the Steens Mountain flood basalt (Carlson, Richard W. 1983)

Ratios: Areal extent and isotope geochemistry of the Steens Mountain flood basalt, southeastern Oregon (Carlson, Richard W. 1983)

— Chemical and isotopic characteristics of late Cenozoic volcanism in the northwestern U.S.A. (Hart, William K. 1982)

— Chemical, geochronologic and isotopic significance of low K, high-alumina olivine tholeiite in the Northwest Great Basin, U.S.A. (Hart, William Kenneth. 1982)

— Geochemical and isotopic inferences on the nature of the crust and mantle; northwestern U.S.A. (Hart, W. K. 1982)

— Isotopic constraints on Columbia River flood basalt genesis and the nature of the subcontinental mantle (Carlson, Richard W. 1984)

— Stable isotope systematics in Mesozoic granites of central and northern California and southwestern Oregon (Masi, U. 1981)

Rhyolites: Silicic volcanism and continental extension; implications for the nature of the crust in the Western U.S. (Wilson, Robert T. 1983)

Isotopes—Lead

Metal ores: Lead-isotopic evidence for a new mixing model in the genesis of volcanic rocks and ores from Washington and Oregon (Church, Stanley E. 1983)

Pb-210: ^{210}Pb -determined sedimentation rates in upper Klamath Lake and Lake Ewewa, Oregon (Martin, E. Ann. 1980)

— ^{210}Pb geochronology, Upper Klamath Lake, Oregon (Martin, E. A. 1983)

Ratios: Lead isotopes in the "Cascades mineral belt", Washington and Oregon (LeHuray, A. P. 1983)

Isotopes—Magmas

Fractionation: Hydrogen isotope fractionation during degassing of rhyolitic magma (Taylor, B. E. 1983)

Isotopes—Mollusca

Po-210/Pb-210: Estimating the ages of mussels by chemical and physical methods (Griffin, John J. 1980)

Isotopes—Oxygen

O-18/O-16: Direct comparison of marine and continental climate records (Pisias, N. G. 1981)

— Geologic systems as analogs for long-term radioactive waste isolation (Wollenberg, Harold A. 1983)

— Map showing the oxygen isotope composition of granitoid rocks of the Basin-Range Province (Lee, D. E. 1981)

— Oxygen isotope systematics of Basin and Range granites (Lee, D. E. 1981)

— Reviewing upwelling & sediments (Suess, Erwin. 1982)

Isotopes—Plutonium

Pu-239: Plutonium and americium export to the North-East Pacific Ocean by Columbia River runoff (Beasley, T. M. 1981)

Isotopes—Ratios

Po-210/Pb-210: Lead 210 and polonium 210 in Mount St. Helens ash (Nevissi, A. E. 1984)

Isotopes—Sedimentary rocks

Ratios: Isotopic provenance of sandstones from the displaced Tyee Formation, Oregon Coast Range (Heller, Paul. 1984)

— Sedimentary response to Eocene tectonic rotation in western Oregon (Heller, Paul Lewis. 1983)

Isotopes—Sediments

Intertidal environment: Intertidal sulfur cycling (Minter, David. 1981)

Marine sediments: Plutonium, ^{241}Am and ^{137}Cs ratios, inventories and vertical profiles in Washington and Oregon continental shelf sediments (Beasley, T. M. 1982)

Radioactive isotopes: The Columbia River sediment studies (Humphreys, L. L. 1963)

Isotopes—Strontium

Sr-87/Sr-86: Columbia River volcanism; the question of mantle heterogeneity or crustal contamination (Carlson, R. W. 1981)

— Complementary crystal fractionation and magma mixing at Mt. Mazama; Crater Lake (Leeman, W. P. 1980)

— Geochemical studies of Columbia River basalts (Brookins, D. G. 1984)

— Geochronology, geochemistry, and petrogenesis of basaltic rocks from the western Cascades, Oregon (Lux, Daniel R. 1981)

— Late Cenozoic volcanic geology of the Jordan Valley area, S.E. Oregon (Hart, William K. 1980)

— Late Miocene and early Pliocene basaltic rocks and their im-

plications for crustal structure, northeastern California and South-central Oregon (McKee, Edwin H. 1983)

— Lead isotope data from the Columbia River Basalt Group; evidence for a layered upper mantle (Church, S. E. 1982)

— Provenance of Eocene graywackes of the Flournoy Formation near Agness, Oregon; a geochemical approach (Peterman, Zell E. 1981)

— Strontium isotopic study of a basalt rhyodacite contact, Robin Hood Quarry, northern Oregon (Brookins, Douglas. 1984)

— Strontium isotopic variations in western Idaho and eastern Oregon and Washington (Fleck, Robert J. 1983)

— Subduction of young oceanic lithosphere and extensional orogeny in southwestern North America during Mid-Tertiary time (Elston, Wolfgang E. 1984)

— Transition from subduction to transform tectonics in southwestern North America (22-8 M.Y. B.P.) (Keith, S. B. 1979)

Sr-90: Strontium-90 and caesium-137 in Columbia River plume, July 1964 (Park, Kilho. 1965)

Isotopes—Sulfur

S-34/S-32: Gravity, isotope, and geochemical study of the Alvord Valley geothermal area, Oregon (Cleary, John. 1981)

— Sulfur isotope geochemistry of the Red Ledge and other massive sulfide deposits of the Northwest (Fifarek, Richard H. 1983)

— The "tops" of porphyry copper deposits; mineralization and plutonism in the western Cascades, Oregon (Power, Sara Glen. 1984)

Isotopes—Water

Surface water: Crater Lake revisited; concentration changes in water column radionuclides, 1967 to 1981 (Volchok, Herbert L. 1983)

Jurassic see also under Geochronology; Stratigraphy; *see also under* Stratigraphy *under* Pacific Coast

Lakes see also under Lacustrine features *under* Geomorphology

Land use see also under Environmental geology; *see also under* Environmental geology *under* Automatic data processing; Columbia Plateau; Pacific Coast; Symposia

Land use—Management

Forestry: Long-term distributions of annual sediment yields from small watersheds (VanSickle, John. 1981)

Land use—Maps

Cartography: Computer based landslide hazard mapping as an aid to land use mapping (Ward, Timothy J. 1980)

Land use—Remote sensing

Irrigation: Identification of irrigation practices using photographic and optical-mechanical scanning remote sensing techniques (Naim, Shamim. 1981)

Landform description see under Geomorphology

Lava

Landslides see under Slope stability; *see under* Mass movements *under* Geomorphology

Lava see also Igneous rocks; Magmas

Lava—Age

Cenozoic: Overview of the geology and geothermal resources of the Mount Hood area, Oregon (Priest, George R. 1982)

Lava—Alteration

Hydrothermal alteration: Volcanic stratigraphy and alteration mineralogy of drill cuttings from EWEB 5 drill hole, Clackamas County, Oregon (Keith, T. E. C. 1981)

— Volcanic stratigraphy and alteration mineralogy of drill cuttings from EWEB 6 drill hole, Clackamas County, Oregon (Keith, T. E. C. 1981)

Lava—Composition

Calc-alkalic composition: Geology and petrology of South Sister Volcano, High Cascade Range, Oregon (Clark, James Gregory. 1983)

Chemical composition: Geology of a part of the Eagle Butte and Gateway quadrangles east of the Deschutes River, Jefferson County, Oregon (Hayman, Glenn A. 1984)

— Stratigraphy of the Grande Ronde Basalt, Columbia River Basalt Group, from the lower Salmon River and northern Hells Canyon area, Idaho, Oregon, and Washington (Reidel, Stephen P. 1982)

— The stratigraphy and structure of the Columbia River Basalt Group in the Bull Run watershed, Multnomah and Clackamas Counties, Oregon (Vogt, Beverly Forbenius. 1981)

Distribution: Geology of the northern part of the southeast Three Sisters quadrangle, Oregon (Wozniak, Karl C. 1982)

Mineral composition: Geology of the northeast one-quarter of the Prineville quadrangle, north-central Oregon (Bingert, Neil J. 1984)

— Geology of the northwest one-quarter of the Prineville quadrangle, central Oregon (Thormahlen, David J. 1984)

— Petrology of Diamond Craters; south-eastern Oregon (Russell, James K. 1982)

Tholeiitic composition: Tholeiitic lavas from the basal portions of the western Cascade sequences in Oregon (White, Craig M. 1980)

Lava—Distribution

Correlation: Geophysical and geochemical analyses of selected Miocene coastal basalt features, Clatsop County, Oregon (Pfaff, Virginia Josette. 1981)

— The stratigraphic relationships of the Columbia River Basalt Group in the lower Columbia River Gorge of Oregon and Washington (Tolan, Terry Leo. 1982)

Lava flows: Intracanyon flows of the Columbia River Basalt Group in the lower Columbia River

- Gorge and their relationship to the Troutdale Formation (Tolan, Terry L. 1984)
- Tectonic and paleoenvironmental significance and magnetic-geochemical stratigraphy of the Columbia River Basalt at the middle Miocene shoreline, northwestern Oregon Coast Range (Murphy, Thomas M. 1982)
 - Tectonic evolution of the southeastern part of the Columbia River basalt plateau (Camp, V. E. 1980)
- Lava—Flow mechanism**
- Lava tubes:* Open vertical volcanic conduits; the structure and speleogenesis of an unusual volcanic cave form with examples from the Oregon High Cascades (Skinner, Craig. 1983)
- Pillow structure:* Geology of the south-central margin of the Tillamook Highlands; southwest quarter of the Enright quadrangle, Tillamook County, Oregon (Cameron, Kenneth Allan. 1980)
- Lava—Genesis**
- Lava flows:* John Day Formation of Oregon; a distal record of early Cascade volcanism (Robinson, Paul T. 1984)
- Speleoliferous lava flows associated with the Brothers and subsidiary fault zones of central and southeastern Oregon (Benedict, Ellen M. 1982)
 - Stratigraphy and petrogenesis of the Grande Ronde Basalt from the deep canyon country of Washington, Oregon, and Idaho (Reidel, S. P. 1983)
- Lava—Geochemistry**
- Lava flows:* Geochemistry of post-glacial dacites from Mt. Hood, Oregon (White, C. M. 1980)
- Major elements:* Icelandite and aenigmatite-bearing pantellerite from the McDermitt caldera complex, Nevada-Oregon (Wallace, A. B. 1980)
- Icelandite from the McDermitt caldera complex, Nevada-Oregon (Wallace, A. B. 1980)
- Trace elements:* Areal distribution and age of low-K, high-alumina olivine tholeiite magmatism in the northwestern Great Basin (Hart, William K. 1984)
- Depletion of incompatible trace elements in successively erupted groups of lavas at Battle Ax Mountain, Cascade Range, Oregon (White, Craig M. 1983)
 - Geology and geochemistry of volcanic rocks in the Detroit area, Western Cascade Range, Oregon (White, Craig McKibben. 1980)
 - Geology and petrology of the Yamsay Mountain Complex, South-central Oregon; a study of bimodal volcanism (Hering, Carl William. 1981)
 - Late Miocene and early Pliocene basaltic rocks and their implications for crustal structure, northeastern California and South-central Oregon (McKee, Edwin H. 1983)
- 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:* Central High Cascade roadside geology; Bend, Sisters, McKenzie Pass, and Santiam Pass, Oregon (Taylor, Edward M. 1981)
- Guide to geologic field trip between Lewiston, Idaho, and Kimberly, Oregon, emphasizing the Columbia River Basalt Group (Swanson, D. A. 1981)
 - High Lava Plains, Brothers fault zone to Harney Basin, Oregon (Walker, George W. 1981)
 - Imbrication, flow direction and possible source areas of the pumice-flow tuffs near Bend, Oregon, U.S.A. (Mimura, Koji. 1984)
 - Roadlog for central High Cascade geology; Bend, Sisters, McKenzie Pass, and Santiam Pass, Oregon (Taylor, Edward M. 1981)
 - Roadlog for geologic field trip between Lewiston, Idaho, and Kimberly, Oregon (Swanson, D. A. 1981)
 - Roadlog for High Lava Plains, Brothers fault zone to Harney Basin, Oregon (Walker, George W. 1981)
- Lava—Petrology**
- Composition:* The structure and stratigraphy of the Columbia River Basalt in the Chehalem Mountains, Oregon (Al-Eisa, Abdul-Rahman Mohammed. 1980)
- Genesis:* Petrogenesis of divergent magmas at South Sister Volcano, High Cascade Range, Oregon (Clark, James G. 1983)
- Inclusions:* A model for the origin of calc-alkaline andesites at Crater Lake, Oregon (Pinta, James, Jr. 1981)
- Lava flows:* Contrasting styles of basaltic volcanism; Chilcotin (British Columbia) and Columbia River Basalt Groups (Bevier, Mary Lou. 1983)
- Drake Peak; a structurally complex rhyolite center in southeastern Oregon (Wells, R. E. 1980)
 - Petrologic evolution of the Clarno Formation, Oregon (Noblett, J. B. 1980)
 - Volcanic petrology of the Eocene Clarno Formation on the John Day River near Cherry Creek, Oregon (Noblett, J. B. 1980)
- Lava—Properties**
- Hydraulic conductivity:* The relationship of the Columbia River Basalt Group to the geothermal potential of the Mount Hood area, Oregon (Beeson, Marvin H. 1982)
- Magnetic properties:* A paleomagnetic survey of Miocene lavas in northern Oregon, southeastern Washington, and west-central Idaho (Watkins, N. D. 1964)
- Paleomagnetic evidence for spatially distributed post-Miocene rotation of western Washington and Oregon (Sheriff, Steven D. 1984)
 - Tectonic rotations recorded by flows in the Columbia River Basalt Group, Washington and Oregon (Simpson, R. W. 1982)
- Thermal conductivity:* Heat flow and geophysical log analysis for OMF-7A geothermal test well, Mount Hood, Oregon (Blackwell, David D. 1982)
- Lava—Structure**
- Lava tubes:* The lava caves of central Oregon (Yuskavitch, Jim. 1980)
- Lead—Abundance**
- Water:* Stream sediment geochemistry, northeastern Oregon (Oregon Department of Geology and Mineral Industries. 1976)
- Lead—Geochemistry**
- Framework silicates:* Spectroscopic and chemical study of the coloration of feldspars by irradiation and impurities, including water (Hofmeister, Anne Marie. 1984)
- Sediments:* Mineral potential of the Fall Creek mining district; a geological-geochemical survey (Gray, Jerry J. 1983)
- Stream sediments:* A synoptic survey of trace metals in bottom sediments of the Willamette River, Oregon (Rickert, David A. 1977)
- Surface water:* Methodology for river-quality assessment with application to the Willamette River basin, Oregon (Rickert, David A. 1976)
- Lead—Isotopes**
- Metal ores:* Lead-isotopic evidence for a new mixing model in the genesis of volcanic rocks and ores from Washington and Oregon (Church, Stanley E. 1983)
- Pb-206/Pb-204:* Silicic volcanism and continental extension; implications for the nature of the crust in the Western U.S. (Wilson, Robert T. 1983)
- Pb-208/Pb-204:* Lead isotope data from the Columbia River Basalt Group; evidence for a layered upper mantle (Church, S. E. 1982)
- Pb-210:* Estimating the ages of mussels by chemical and physical methods (Griffin, John J. 1980)
- Lead 210 and polonium 210 in Mount St. Helens ash (Nevissi, A. E. 1984)
 - ²¹⁰Pb-determined sedimentation rates in upper Klamath Lake and Lake Euwana, Oregon (Martin, E. Ann. 1980)
 - ²¹⁰Pb geochronology, Upper Klamath Lake, Oregon (Martin, E. A. 1983)
- Ratios:* Isotopic constraints on Columbia River flood basalt genesis and the nature of the subcontinental mantle (Carlson, Richard W. 1984)
- Lead isotopes in the "Cascades mineral belt", Washington and Oregon (LeHuray, A. P. 1983)
- Lexicons see also Glossaries**
- Limestone see also under Carbonate rocks under Sedimentary rocks**
- Limnology see under Hydrology**
- Lineation see also Structural analysis**
- Lineation—Style**
- Elongate minerals:* The kinematic insignificance of mineral lineations in a late Jurassic thrust and fold belt in eastern Oregon, U.S.A. (Ave Lallemand, Hans G. 1983)
- Lithium see also under Geochemistry**
- Magmas see also Igneous rocks; Intrusions; Lava**
- Magmas—Composition**
- Basaltic composition:* Complementary crystal fractionation and magma mixing at Mt. Mazama; Crater Lake (Leeman, W. P. 1980)
- Chemical composition:* Areal distribution and age of low-K, high-alumina olivine tholeiite magmatism in the northwestern Great Basin (Hart, William K. 1984)
- Evolution:* Transition from subduction to transform tectonics in southwestern North America (22-8 M.Y. B.P.) (Keith, S. B. 1979)
- Interpretation:* Late Cenozoic volcanic stratigraphy of the Jordan Valley area, southeastern Oregon (Hart, William K. 1983)
- Melts:* Petrology of the Bend Pumice & Tumalo Tuff; a Pleistocene Cascade eruption involving magma mixing (Hill, Brittain E. 1984)
- Models:* Wyrdite; petrogenesis of an extraordinary mining assemblage (Burton, James Hutson, III. 1981)
- Magmas—Differentiation**
- Crystallization:* The geology and petrology of Three Fingered Jack, a High Cascade volcano in central Oregon (Davie, Ellen Ingraham, II. 1981)
- Crystallization:* Origin of comb layering in the Willow Lake Intrusion, N.E. Oregon (Carpenter, Paul Kenneth. 1983)
- Fractional crystallization:* A stratigraphically controlled variation in whole rock and mineral chemistry in the subalkaline and peralkaline volcanic rocks of Hart Mountain, Oregon (Brenneman, Robert J. 1983)
- Depletion of incompatible trace elements in successively erupted groups of lavas at Battle Ax Mountain, Cascade Range, Oregon (White, Craig M. 1983)
 - Differentiation of a gabbro sill in the Oregon Coast Range by crystallization-zone settling (MacLeod, N. S. 1981)
 - Divergent magmas at Crater Lake, Oregon; products of fractional crystallization and vertical zoning in a shallow, water-under-saturated chamber (Ritchey, J. L. 1980)
 - Geology of the igneous complex at Tincup Peak, Kalmiopsis Wilderness Area, southwestern Oregon (Gray, Floyd. 1982)

- Icelandite and aenigmatite-bearing pantellerite from the McDermitt caldera complex, Nevada-Oregon (Wallace, A. B. 1980)
- Icelandite from the McDermitt caldera complex, Nevada-Oregon (Wallace, A. B. 1980)
- Lherzolithic and wehrlitic rock series at Tincup Peak, Klamath Mountains, southwestern Oregon (Gray, F. 1980)
- Petrogenesis of divergent magmas at South Sister Volcano, High Cascade Range, Oregon (Clark, James G. 1983)
- Petrography and geochemistry of the Illinois River gabbros, Kalmiopsis wilderness area, southwestern Oregon (Nicholson, Suzanne Warner. 1981)
- Petrology and geochemistry of igneous rocks from the McDermitt caldera complex, Nevada-Oregon, and Adak Island, Alaska; evidence for crustal development (Conrad, Walter Karr. 1983)
- Petrology and regional setting of peridotite and gabbro of the Canyon Mountain Complex, northeast Oregon (Mullen, Ellen D. 1983)
- Petrology, geochemistry and origin of the Sparta quartz diorite-trondhjemite complex, northeastern Oregon (Phelps, D. 1979)
- Petrology of gabbro and peridotite of the Canyon Mountain Complex, Northeast Oregon (Mullen, Ellen D. 1983)
- Stratigraphy and petrogenesis of the Grande Ronde Basalt from the deep canyon country of Washington, Oregon, and Idaho (Reidel, S. P. 1983)
- The geology and geochemistry of the North Fork Stock, northeastern Oregon (Matty, David Joseph. 1979)
- The stability of amphibole in andesite and basalt at high pressures (Allen, J. C. 1983)
- Volcanism and structure in the vicinity of Echo Mountain, central Oregon Cascade Range (Avramenko, Walter. 1981)
- Fractionation:** Geology and petrology of Gearhart Mountain; a study of calc-alkaline volcanism east of the Cascades in Oregon (Brikowski, Tom Harry. 1983)
- Partial melting:** Pliocene stratigraphy of the Klamath River Gorge, Oregon (Walker, Jeffrey R. 1983)
- Source mixing; an example from basalts of the northwestern U.S. (Hart, William K. 1981)
- Magmas—Evolution**
- Supercooling:** Origin of comb layering in the Willow Lake Intrusion, N.E. Oregon (Carpenter, Paul K. 1983)
- Volcanism:** Geology and petrology of the Yamsay Mountain Complex, South-central Oregon; a study of bimodal volcanism (Hering, Carl William. 1981)

Magmas—Genesis

- Mantle:** Areal extent and isotope geochemistry of the Steens Mountain flood basalt, south-eastern Oregon (Carlson, Richard W. 1983)
- Partial melting:** Major and trace element studies of central High Cascades platform basalts (Hughes, Scott S. 1981)
- Silicic volcanism and continental extension; implications for the nature of the crust in the Western U.S. (Wilson, Robert T. 1983)
- Polyphase processes:** Geology and petrology of South Sister Volcano, High Cascade Range, Oregon (Clark, James Gregory. 1983)
- Subduction zones:** Petrologic evolution of the Clarno Formation, Oregon (Noblett, J. B. 1980)
- Magmas—Geochemistry**
- Isotopes:** Hydrogen isotope fractionation during degassing of rhyolitic magma (Taylor, B. E. 1983)
- Phase equilibria:** Geochemistry of post-glacial dacites from Mt. Hood, Oregon (White, C. M. 1980)
- Trace elements:** Columbia River volcanism; the question of mantle heterogeneity or crustal contamination (Carlson, R. W. 1981)
- Petrology of mafic rocks from the Canyon Mountain ophiolite complex (Leeman, William P. 1983)
- The mineralogy and petrology of compositionally zoned ash flow tuffs, and related silicic volcanic rocks, from the McDermitt Caldera complex, Nevada-Oregon (Conrad, Walter K. 1984)
- Magmas—Properties**
- Magma chambers:** Implications of silicic vent patterns for the presence of large crustal magma chambers (Bacon, Charles R. 1984)
- Viscosity:** Crystal settling in carbonatites (Treiman, A. H. 1981)
- Magmas—Temperature**
- Magma chambers:** Detailed plots of convective heat-flow models (Blackwell, David D. 1983)
- Thermal models of the Newberry Volcano, Oregon (Blackwell, David D. 1983)
- Magnesium—Abundance**
- Water:** Factors contributing to the maintenance of oligotrophy in an alpine glacial moraine lake (Wallowa Lake) in northeast Oregon (Larson, Douglas W. 1981)
- Magnesium—Geochemistry**
- Ground water:** Chemistry of ground waters associated with the Grants Pass Batholith, Klamath Mountains, OR (Mack, Gregory S. 1982)
- Norite:** Origin of comb layering in the Willow Lake Intrusion, N.E. Oregon (Carpenter, Paul K. 1983)
- Magnetic surveys see under** Geophysical surveys; **see under** Geophysical surveys **under** Basin and Range Province; Columbia Plateau; Pacific Coast; Pacific Ocean

- Magnetotelluric surveys see under** Geophysical surveys; **see under** Geophysical surveys **under** Columbia Plateau; Pacific Coast
- Mammalia—Cetacea**
- Miocene:** Middle Tertiary Cetacea in western Oregon (Orr, William N. 1982)
- Mammalia—Desmostylia**
- Tertiary:** The extinct mammalian order Desmostylia (Reinhart, Roy H. 1982)
- Mammalia—Elephantoidea**
- Miocene:** Elephantoid proboscidean Gomphotherium in North America (Madden, Cary T. 1984)
- Mammalia—Faunal studies**
- Cretaceous:** Paleontology and paleoecology of the Lance Formation (Maastrichtian), east flank of Rock Springs Uplift, Sweetwater County, Wyoming (Breithaupt, Brent H. 1982)
- Miocene:** The Warm Springs fauna (Mammalia, Hemingfordian) from the western facies of the John Day Formation, Oregon (Dingus, Lowell. 1979)
- Mammalia—Fissipeda**
- Cenozoic:** Fossil bear tracks in Lake County, Oregon (Packard, Earl L. 1980)
- Mammalia—Insectivora**
- Neogene:** Cf. Condylura (Mammalia: Talpidae) from the late Tertiary of Oregon (Hutchison, J. Howard. 1984)
- Mammalia—Lagomorpha**
- Pleistocene:** Eastern North American Pleistocene Ochotona (Lagomorpha; Mammalia) (Guilday, J. E. 1979)
- Mammalia—Mastodontoides**
- Quaternary:** Excavation and study of prehistoric bones from a site near Nyssa, Oregon (Brown, Terri. 1980)
- Mammalia—Occurrence**
- Cenozoic:** Fossil marine mammals of Oregon (Ray, Clayton E. 1976)
- Eocene:** Alonzo Wesley "Lon" Hancock (1884-1961); a profile (Oberson, V. L. 1979)
- Miocene:** Paleontological sites in Malheur County, Oregon (Zamora, Carol. 1983)
- Pleistocene:** Mammals of the Oregon Pleistocene (Gamer, Robert L. 1984)
- Mammals of the Oregon Pleistocene; Part I (Gamer, Robert L. 1983)
- Mammalia—Perissodactyla**
- Miocene:** Tylocephalonyx, a new genus of North American domed-skulled chalicotheres; Mammalia, Perissodactyla (Coombs, M. C. 1979)
- Mammalia—Rodentia**
- Miocene:** The cranial morphology of the fossil beaver Dipoides smithi (Rodentia; Mammalia) (Wagner, Hugh M. 1983)
- Neogene:** Holarctic radiation of Neogene murid rodents and the origin of South American cricetids (Jacobs, Louis L. 1984)
- Oligocene:** Successions of meniscomyine and allomyine rodents (Aplodontidae) in the Oligo-

- Miocene John Day Formation, Oregon (Rensberger, John M. 1983)
- Mammals—Biostratigraphy**
- Cenozoic:** Successions of meniscomyine and allomyine rodents (Aplodontidae) in the Oligo-Miocene John Day Formation, Oregon (Rensberger, John M. 1983)
- Miocene:** Mascall mammals of middle Miocene age (Gamer, Robert L. 1984)
- Quaternary:** Late Quaternary mammalian zoogeography of eastern Washington (Lyman, R. Lee. 1983)
- Manganese—Geochemistry**
- Meteorites:** Sodium and manganese homogeneity in chondritic meteorites (Osborn, T. W. 1970)
- Mantle see also under** Seismology; Tectonophysics; **see also under** Seismology **under** Automatic data processing; Pacific Coast
- Mantle—Composition**
- Metals:** Terrestrial osmium-iridium-ruthenium alloys; evidence for a deep mantle history (Bird, J. M. 1980)
- Maps see also under** Areal geology; Economic geology; Engineering geology; Environmental geology; Geochemistry; Geomorphology; Geophysical surveys; Hydrogeology; Oceanography; Petrology; Soils; Stratigraphy; Structural geology; **see also under** Areal geology **under** Columbia Plateau; Pacific Coast; **see also under** Economic geology **under** Basin and Range Province; Pacific Coast; **see also under** Engineering geology **under** Basin and Range Province; **see also under** General **under** Pacific Coast; **see also under** Geochemistry **under** Basin and Range Province; **see also under** Geophysical surveys **under** Basin and Range Province; Pacific Coast; Pacific Ocean; **see also under** Hydrogeology **under** Pacific Coast; **see also under** Oceanography **under** Pacific Coast; Pacific Ocean; **see also under** Seismology **under** Basin and Range Province; Pacific Ocean; **see also under** Soils **under** Columbia Plateau; **see also under** Stratigraphy **under** Basin and Range Province; Columbia Plateau; Pacific Coast; **see also under** Structural geology **under** Basin and Range Province; Pacific Coast
- Maps—Cartography**
- Automatic cartography:** Computer based landslide hazard mapping as an aid to land use mapping (Ward, Timothy J. 1980)
- Digital simulation:** Oregon survey of digital requirements of State agencies and select organizations (Ireland, Glenn W. 1984)
- Economic geology maps:** A mapping strategy for hydro-geothermal evaluation (Hodler, Thomas W. 1982)
- Geologic maps:** Geologic and neotectonic evaluation of north-central Oregon; The Dalles, Oregon; Washington, 1° × 2° quadrangle (Bela, J. L. 1983)
- Index:** Index to published geologic mapping in Oregon 1898-1979 (Schumacher, C. A. 1981)

- Programs:** Fifth annual report of the State Map Advisory Committee for Oregon 1983 (Beaulieu, John D. 1983)
- Fourth annual report of the State Map Advisory Committee for Oregon, 1982 (Beaulieu, John D. 1983)
- Second annual report of the State Map Advisory Committee for Oregon, 1980 (Beaulieu, John D. 1981)
- Using U. S. Geological Survey map separates in thematic cartography (Loy, William, G. 1980)
- Remote sensing:** Statistical analysis of thematic mapper simulator data for the geobotanical discrimination of rock types in southwest Oregon (Morrisey, Leslie A. 1984)
- Marine geology** *see also* Oceanography; *see also under* Oceanography under Pacific Coast; Pacific Ocean
- Marine geology—Techniques**
- Sample preparation:** Antibiotic poisoning of sediment trap (Fischer, K. 1979)
- Mass movements** *see under* Geomorphology
- Mathematical geology** *see also* Automatic data processing
- Meetings** *see* Symposia
- Melange** *see under* Field studies under Deformation; *see under* Interpretation under Structural analysis
- Mercury** *see also under* Economic geology
- Mercury—Abundance**
- Water:** Stream sediment geochemistry, northeastern Oregon (Oregon Department of Geology and Mineral Industries. 1976)
- Mercury—Analysis**
- Chemical analysis:** Appendix A; Analytical laboratory procedure for the Newberry mercury survey (Hadden, R. Mark. 1983)
- Soil-mercury survey error analysis (Priest, George R. 1983)
- Mercury—Geochemistry**
- Preliminary soil-mercury survey of Newberry Volcano, Deschutes County, Oregon (Hadden, Mark M. 1982)
- Sediments:** Mineral potential of the Fall Creek mining district; a geological-geochemical survey (Gray, Jerry J. 1983)
- Soils:** Exploration for geothermal areas using mercury; a new geochemical technique (Matlick, Joseph S., III. 1978)
- Geothermal exploration at Glass Butte, Oregon (Johnson, Keith E. 1983)
- Hg anomalies in soils; a geochemical exploration method for geothermal areas (Varekamp, J. C. 1983)
- Preliminary soil-mercury survey of Newberry Volcano, Deschutes County, Oregon (Priest, George R. 1983)
- Stream sediments:** A synoptic survey of trace metals in bottom sediments of the Willamette River, Oregon (Rickert, David A. 1977)
- Mesozoic** *see also* Cretaceous; Geochronology; Stratigraphy; *see also under* Stratigraphy under Great Plains; Pacific Coast
- Metals** *see also* Aluminum; Arsenic; Cobalt; Economic geology; Gold; Iron; Lead; Magnesium; Manganese; Mercury; Molybdenum; Nickel; Platinum; Silver; Thorium; Titanium; Uranium; Zinc
- Metals—Abundance**
- Sediments:** ^{210}Pb -determined sedimentation rates and trace-metal concentrations, upper Klamath Lake and Lake Euwana, Oregon (Martin, E. A. 1980)
- Metamorphic rocks** *see also* Igneous rocks; Metamorphism; Metasomatism
- Metamorphic rocks—Composition**
- Mineral composition:** Mineralogy of the Old Maid Flat geothermal exploratory hole No. 7A, Mount Hood, Oregon (Holdaway, M. J. 1982)
- Serpentine:** Tectonic inclusions in serpentinites (Coleman, R. G. 1980)
- Metamorphic rocks—Distribution**
- Metamorphic belts:** Extension of Sierra Nevada-Klamath suture system into eastern Oregon and western Idaho (Hietanen, Anna. 1981)
- Terranes:** Paleozoic and Triassic terranes of the Blue Mountains, northeast Oregon; discussion and field trip guide; Part 1; a new consideration of old problems (Mullen, Ellen D. 1983)
- Metamorphic rocks—Genesis**
- Complexes:** Cordilleran metamorphic core complexes; Cenozoic extensional relics of Mesozoic compression (Coney, Peter J. 1984)
- Metamorphic rocks—Metaigneous rocks**
- Metaperidotite:** Dehydration origin of metamorphic spinifex (jackstraw) texture; evidence from the Greenhorn Mountains, northeast Oregon (Mullen, E. D. 1980)
- Metaroddingite:** Prograde metamorphism of serpentinites in the western Paleozoic and Triassic belt, Klamath Mountains Province (Medaris, L. G., Jr. 1980)
- Significance of metaroddingite in the Wrangle Gap-Red Mountain ultramafic complex, Klamath Mountains, Oregon (Rice, J. M. 1980)
- Ophiolite:** Syncrystallization and subsolidus deformation in ophiolitic peridotite and gabbro (Thayer, T. P. 1980)
- Petrology:** Petrology of ultramafic and gabbroic rocks of the Canyon Mountain ophiolite, Oregon (Himmelberg, G. R. 1980)
- Metamorphic rocks—Metasedimentary rocks**
- Lithostratigraphy:** Structural geology, stratigraphy, and petrology of the Elkhorn Ridge Argillite, in the Sumpter area, northeastern Oregon (Coward, Robert Irvin. 1983)
- Meta-argillite:** Geology and metamorphic petrology of the Elkhorn Ridge area, northeastern Oregon (Stimson, Eric Jordan. 1980)
- Metabentonite:** Paleozoic metabentonites of North America; Part 2, Metabentonites in the Middle Ordovician Tyrone Formation at Boonesborough, Clark County, Kentucky (Conkin, James E. 1983)
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- Calc-alkalic composition:** Geochemical variations within an ancient island arc, southwestern Oregon (Johnson, M. G. 1980)
- Genesis:** Seven Devils terrane; is it really a piece of Wrangellia? (Sarewitz, Daniel. 1983)
- Greenschist facies:** Paleomagnetism of metavolcanic rocks of the Upper Jurassic Galice Formation, western Klamath Mountains, California and Oregon (Bogen, Nicholas L. 1984)
- Metamorphic rocks—Petrography**
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- Metamorphic rocks—Petrology**
- Complexes:** Petrology of the Rogue River island-arc complex, southwest Oregon (Garcia, Michael O. 1982)
- Metamorphic rocks—Schists**
- Blueschist:** Metamorphic history of a high-grade blueschist exotic block from the Franciscan Complex, California (Moore, Diane E. 1984)
- The Blue Mountains of eastern Oregon; their position in the western American Cordillera (Roure, F. 1981)
- Composition:** Geology of the Condrey Mountain Schist, northern Klamath Mountains, California and Oregon (Donato, M. M. 1980)
- Glaucophane schist:** Glaucophaneschist belts of the Pacific framework (Dobretsov, N. L. 1979)
- Greenschist:** Temperature-pressure progression in high pressure Permian-Triassic metamorphic rocks of N.E. Oregon (Mullen, Ellen D. 1980)
- Greenstone:** Geology, geochemistry, and geothermal resources of the Old Maid Flat area, Oregon (Priest, George R. 1982)
- Heat flow and geophysical log analysis for OMF-7A geothermal test well, Mount Hood, Oregon (Blackwell, David D. 1982)
- Preliminary geochemistry of greenstones from the pre-Tertiary oceanic terrane of the Blue Mountains, northeast Oregon (Mullen, Ellen D. 1982)
- Metamorphic rocks—Textures**
- Fabric:** Structural geology and metamorphic petrology of the southern Snake River canyon, Oregon (Jenkins, L. S. 1980)
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- P-T conditions:** Tilted plutons in the Klamath Mountains (Barnes, C. G. 1983)
- Thermal metamorphism:** Thermal metamorphism of Northwest coals associated with igneous intrusions (Beeson, Dale C. 1981)
- Metamorphism—P-T conditions**
- Indicators:** Significance of metaroddingite in the Wrangle Gap-Red Mountain ultramafic complex, Klamath Mountains, Oregon (Rice, J. M. 1980)
- Volcanism and sedimentation of a Late Jurassic to Early Cretaceous Franciscan terrane near Bosley Butte, southwestern Oregon (Wiggins, Brian Douglas. 1980)
- Metamorphism—Processes**
- Recrystallization:** Dehydration origin of metamorphic spinifex (jackstraw) texture; evidence from the Greenhorn Mountains, northeast Oregon (Mullen, E. D. 1980)
- Metamorphism—Prograde metamorphism**
- Serpentine:** Prograde metamorphism of serpentinites in the western Paleozoic and Triassic belt, Klamath Mountains Province (Medaris, L. G., Jr. 1980)
- Metamorphism—Retrograde metamorphism**
- High-grade metamorphism:** Metamorphic history of a high-grade blueschist exotic block from the Franciscan Complex, California (Moore, Diane E. 1984)
- Metamorphism—Rheomorphism**
- Mechanism:** Welded tuffs deformed into megareheomorphic folds during collapse of the McDermitt Caldera, Nevada-Oregon (Hargrove, Howard R. 1984)
- Metamorphism—Temperature**
- Hydrothermal alteration:** Mineralogy of the Old Maid Flat geothermal exploratory hole No. 7A, Mount Hood, Oregon (Holdaway, M. J. 1982)
- Metasomatic rocks—Serpentine**
- Mineral composition:** Mineralogy, texture and chemistry of the serpentinites and serpentinitized ultramafic rocks of the Canyon Mountain Complex, John Day, Oregon (Twyman, Terry Rayno. 1979)
- Metasomatism—Processes**
- Hydrothermal alteration:** Geology and alteration of a Pliocene silicic volcanic center, Glass Buttes, Oregon (Berri, D. A. 1983)
- Geology, geochemistry and hydrothermal alteration, Glass Buttes, southeast Oregon (Berri, Dulcy A. 1982)
- Hydrothermal alteration and mineralization at the Black Butte mercury mine, Lane County, Oregon (Derkey, R. E. 1980)
- Hydrothermal alteration and mineralization at the Blackbutte mercury mine, Lane County, Oregon (Derkey, Robert E. 1981)
- Hydrothermal alteration at Mount Hood, Oregon (Beeson, M. H. 1980)
- Hydrothermal alteration mineralogy in Newberry 2 drill core, Newberry Volcano, Oregon (Bargar, Keith E. 1983)

- Secondary mineralization in the Mt. Hood area, Oregon (Beeson, M. H. 1980)
- Volcanic stratigraphy and alteration mineralogy of drill cuttings from EWEB 1 drill hole, Linn County, Oregon (Keith, T. E. C. 1981)
- Volcanic stratigraphy and alteration mineralogy of drill cuttings from EWEB 2 drill hole, Linn County, Oregon (Keith, T. E. C. 1981)
- Volcanic stratigraphy and alteration mineralogy of drill cuttings from EWEB 5 drill hole, Clackamas County, Oregon (Keith, T. E. C. 1981)
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- Volcanic stratigraphy and secondary mineralization of USGS Pucci geothermal test well, Mount Hood, Oregon (Gannett, M. W. 1981)
- Serpentinization:** Development of alteration rinds around high-grade tectonic blocks in the Franciscan Complex, California and Otter Point Formation, southern Oregon (Moore, Diane E. 1980)
- Mineralogy, texture and chemistry of the serpentinites and serpentinized ultramafic rocks of the Canyon Mountain Complex, John Day, Oregon (Twyman, Terry Rayno. 1979)
- Tectonic inclusions in serpentinites (Coleman, R. G. 1980)
- The geology of josephinite in the Josephine Peridotite, southwest Oregon (Leavell, Daniel Nelson. 1983)
- Zeolitization:** Geology of the Whitehorse Caldera and caldera-fill deposits, Malheur County, Oregon (Rytuba, J. J. 1981)
- Meteor craters** *see also* Meteorites
- Meteorites—Collections**
 - Willamette Meteorite:* Ellis Hughes's Meteorite (Preston, Douglas J. 1982)
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 - Composition:* Rocks from northwestern skies (Lange, Erwin F. 1967)
- Meteorites—Geochemistry**
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- Micropaleontology—Practice**
 - History:* Brief history of Cenozoic marine biostratigraphy of the Pacific Northwest (Addicott, Warren O. 1981)
- Mid-ocean ridges** *see under* Ocean floors

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- Exhalative processes:** Geology of the Silver Peak Mine, Douglas County, Oregon (Derkey, Robert Erwin. 1982)
- Structural controls:** Structural controls of alteration and mineralization, Ruth Mine, North Santiam mining area, Oregon (Pollock, James Michael. 1984)
- Mineral deposits, genesis—Bauxite**
 - Authigenesis:** Formation and zonation of ferruginous bauxite deposits of the Chapman quadrangle, Oregon (Marty, Richard Charles. 1983)
 - Laterization:** A stratigraphic and geochemical investigation of ferruginous bauxite deposits in the Salem Hills, Marion County, Oregon (Hoffman, Charles William. 1981)
- Mineral deposits, genesis—Controls**
 - Geochemical controls:** An investigation of fluid inclusions and geochemistry of ore formation in the Cedar Creek breccia pipe, North Santiam mining district, Oregon (Winters, Mark B. 1984)
- Mineral deposits, genesis—Copper ores**
 - Hydrothermal processes:** Geology of the Iron Dyke Mine, Homestead, Oregon (Stevens, Mark Gerald. 1981)
 - Igneous processes:** The "tops" of porphyry copper deposits; mineralization and plutonism in the western Cascades, Oregon (Power, Sara Glen. 1984)
 - Submarine environment:** The Queen of Bronze copper deposit, southwestern Oregon; an example of sub-sea floor massive sulfide mineralization (Sorensen, Mark Randall. 1983)
- Mineral deposits, genesis—Gold ores**
 - Laterization:** Laterization as a possible contributor to gold placers (Evans, David Le Count. 1981)
- Mineral deposits, genesis—Heavy mineral deposits**
 - Sedimentary processes:** Processes of selective grain transport and the formation of placers on beaches (Komar, Paul D. 1984)
- Mineral deposits, genesis—Metal ores**
 - Environment:** Volcanogenic massive sulfide deposits in ocean-crust and island-arc terranes, northwestern Klamath Mountains, Oregon and California (Koski, R. A. 1981)
 - Exhalative processes:** Cenozoic tectonic and hydrothermal overprint and destruction of a metamorphosed iron-formation and massive sulfide in southwestern Oregon (Jacobs, David C. 1981)
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 - Ore-forming fluids:** Mineralogic and trace element variation in the carbonate rocks (Middle and Upper Ordovician) associated with faults in central Kentucky (George, John Samuel. 1982)

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Mineralization: Kuroko type mineralization at the Iron Dyke Mine, Oregon and the Red Ledge deposit, Idaho (Juhas, A. P. 1980)

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Ophiolite: Metallogenetic maps of the ophiolite belts of the western United States (Peterson, Jocelyn A. 1984)

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Mercury: Preliminary soil-mercury survey of Newberry Volcano, Deschutes County, Oregon (Hadden, Mark M. 1982)

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Rocks: Geochemical map and rock and stream-sediment data from the Wild Rogue Wilderness, Coos and Curry Counties, Oregon (Peterson, James A. 1983)

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- Geochemical data for rock, stream sediment, and panned concentrate samples, Mount Hood Wilderness area, Oregon (Keith, T. E. C. 1980)
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- Maps showing geology and geochemical sample localities, Pine Creek (RARE II) area, Harney County, Oregon (Walker, G. W. 1980)
- Trace elements:** Analytical results and sample locality maps for stream-sediment, oxalic-acid-leachate, panned-concentrate, and rock samples from the Kalmiopsis Wilderness, Curry and Josephine Counties, Oregon (Grimes, D. J. 1983)
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 - Trace elements in veins of the Bohemia mining district, Oregon (Istas, Laurence Stewart. 1983)
- Uranium ores:** Baker 1° x 2° NTMS area, Oregon and Idaho; data report (abbreviated); hydrogeochemical and stream sediment reconnaissance (Cook, J. R. 1981)
- Geochemical maps of uranium, thorium, and thorium-uranium in granites of the Basin and Range province (McNeal, J. M. 1980)
- Mineral exploration—Geological methods**
- Diatomite:** The geology of economically significant lower Pliocene diatomites in the Fort Rock Basin near Christmas Valley, Lake County, Oregon (Colbath, G. Kent. 1982)
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 - Oregon's mineral developments, 1980 (Gray, Jerry J. 1980)
- Structural controls:** Lakeview uranium area, Lake County, Oregon; constraints on genetic modelling from a district-scale perspective (Weissenberger, Ken William. 1984)
- Uranium ores:** Geology of the Whitehorse Caldera and caldera-fill deposits, Malheur County, Oregon (Rytuba, J. J. 1981)
- Mineral exploration—Geophysical methods**
- Chromite:** Geophysical studies of chromite deposits in the Josephine ultramafic complex of northwest California and southwest Oregon (Wynn, J. C. 1980)
- Chromite ores:** Chromite geophysics (Wynn, J. C. 1978)
- Magnetic methods:** Big Craggies ultramafic body, Oregon (Blakely, R. J. 1980)
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- Well-logging:** Engineering report on the McDermitt Caldera drilling project, Humboldt County, Nevada, Harney and Malheur Counties, Oregon (Jones, L. I. 1981)
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- Electrical surveys:** Big Turtle releases results (Anonymous. 1984)
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- Remote sensing:** Statistical analysis of thematic mapper simulator data for the geobotanical discrimination of rock types in southwest Oregon (Morrissey, Leslie A. 1984)
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- Mineral exploration—Hydrological methods**
- Gold ores:** Application of the hot springs of fumarolic model in prospecting for lode gold deposits (Worthington, J. E. 1980)
- Mineral exploration—Methods**
- Uranium ores:** Baker Quadrangle, Oregon and Idaho (Bernardi, M. L. 1982)
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- Mineral exploration—Ore guides**
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- Uranium ores:** The stratigraphy, petrology, and paleomagnetism of the Moss Flat area, Lake County, Oregon (Oliveira, Jose Auto Lancaster. 1981)
- Mineral exploration—Programs**
- Mineral resources:** Mineral resource potential of the Pine Creek (RARE II) area, Oregon (Walker, G. W. 1980)
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- Peridotites:** Mapping ultramafic rock using Landsat data; the Josephine Peridotite, Oregon and California (Harding, David J. 1984)
- Spectral analysis:** Visible and near-infrared spectra of rocks from a chromite-rich area in Oregon (Hunt, G. R. 1979)
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- Metal detectors:** New gold-finding technique (Smid, Patrick J. 1983)
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- Mineralogy**
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 - The origin of metal alloys in alpine-type peridotites; the josephinite example (Leavell, Daniel N. 1983)
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- Field trip; Oregon's Pony Creek (Smith, Ken. 1984)
- Geologic origin of Malheur County picture jasper (Stewart, Richard. 1981)
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- Tectonics:** Pacific Northwest region (Yates, R. G. 1979)
- Structural and petrochemical indicators for an extensional tectonic regime imposed on central high Cascade volcanism (Hughes, S. S. 1984)
 - Structural styles in Mesozoic melanges along the Pacific margin of North America and their relation to subduction tectonics (Cowan, Darrel S. 1981)
 - The Mount Diablo and Josephine ophiolites, Rogue and Xolapa arcs, Middle Jurassic plutons of the Sierra Nevada, and Sacramento Valley ophiolitic basement; remnants of a major east-west-trending Middle Jurassic arc and spreading center system along the west margin of North America? (Williams, Kathleen M. 1983)
- Pacific Coast—Tectonophysics**
- Crust:** Late Miocene and early Pliocene basaltic rocks and their implications for crustal structure, northeastern California and South-central Oregon (McKee, Edwin H. 1983)
- Heat flow:** Geochemistry of post-glacial dacites from Mt. Hood, Oregon (White, C. M. 1980)
- Implications of heat driven extension for some Cenozoic structures in Oregon (Conrey, R. M. 1982)
- Plate tectonics:** A geologic profile of western American ranges; California and Oregon (Roure, Francois. 1980)
- Active deformation of the Pacific Northwest continental margin (Adams, John. 1984)
 - Active tilting of the Oregon and Washington coastal ranges (Adams, J. 1980)
 - Apparent clockwise rotations in the central Columbia Plateau; paleomagnetic evidence (Reidel, S. P. 1982)
 - Cenozoic plate motions and the volcano-tectonic evolution of western Oregon and Washington (Wells, R. E. 1984)
 - Cenozoic plate reconstruction (Duncan, R. 1984)
 - Cenozoic tectonic rotations of Oregon and Washington (Magill, James Robert. 1981)
 - Certain problems of the structure and evolution of transition zones between continents and oceans (Belousov, V. V. 1984)
 - Crustal structure near the Juan de Fuca and Explorer plate boundary from seismic refraction data (Au, D. 1979)
 - Geodynamics of the Juan de Fuca Plate (Riddihough, Robin P. 1983)
 - Geologic cross section of the central Oregon continental margin (Snively, P. D., Jr. 1980)
 - Geologic framework for geothermal energy in the Cascade Range (Duffield, W. A. 1983)
 - Gorda Plate motions from magnetic anomaly analysis (Riddihough, Robin P. 1980)
 - Has the Washington-Oregon Coast Range moved northward? (Beck, Myrl E., Jr. 1984)
 - Heat flow, arc volcanism, and subduction in northern Oregon (Blackwell, David D. 1982)
 - In Pacific NW subduction active, decaying or incipient? The 2-m geoid (Bostrom, R. C. 1984)
 - Interpretation of the Cenozoic geologic history, central Oregon continental margin; cross-section summary (Snively, P. D., Jr. 1980)
 - Juan de Fuca Plate map; gravity (Riddihough, Robin P. 1983)
 - Late Mesozoic tectonic events in the Pacific Northwest (Cowan, D. S. 1980)
 - Late Mesozoic tectonics and sedimentation along the southwestern Oregon coast (Dott, R. H., Jr. 1980)
 - Middle to Late Jurassic tectonic evolution of the Klamath Mountains, California-Oregon (Harper, Gregory D. 1984)
- Miocene ridge impingement and the spawning of secondary ridges off Oregon, Washington and British Columbia (Farrar, E. 1980)
 - Oceanic crustal composition in the Northeast Pacific (Christensen, N. I. 1970)
 - Paleomagnetic evidence for spatially distributed post-Miocene rotation of western Washington and Oregon (Sheriff, Steven D. 1984)
 - Paleomagnetism of intrusive rocks in the Coast Range of Oregon; microplate rotations in middle Tertiary time (Beck, M. E., Jr. 1980)
 - Paleomagnetism of Tertiary intrusive rocks in the Oregon Coast Range; timing and mechanism of tectonic rotation (Plumley, Peter W. 1980)
 - Paleozoic plate tectonics and the evolution of the Cordilleran continental margin (Dickinson, W. R. 1977)
 - Plate tectonics, physiography, and sedimentation of the Northeast Pacific region (Howell, D. G. 1980)
 - Quaternary sedimentation on the tectonically active Oregon continental slope (Kulm, L. D. 1979)
 - Relation between orogeny, subduction, and changing-plate motion models for the Pacific Coast region of the United States (Blake, M. C., Jr. 1982)
 - Rotation mechanisms in western Oregon and Washington (Coe, R. S. 1982)
 - Rotation of microplates in western North America (Cox, Allan. 1980)
 - Segmentation of the Cascade volcanic chain (Hughes, J. M. 1980)
 - Some results on the 3-D velocity distribution in Alaska (Biswas, N. N. 1982)
 - Tectonic model for Cenozoic rotation of microplates in Oregon, USA (Bentley, Robert D. 1980)
 - Tectonic rotation and basin development during mid-Tertiary extension in the Pacific Northwest (Heller, Paul L. 1984)
 - The Cascade Province (McBirney, A. R. 1982)
 - Three-dimensional crust-upper mantle velocity structure of southern Alaska (Zandt, G. 1982)
 - Timing of late Cenozoic volcanic and tectonic events along the western margin of the North American Plate (Barrash, Warren. 1982)
 - 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)
 - Understanding thermal energy and dynamic processes in subduction-related volcanic arcs; Proposed studies in the Cascades (Priest, George R. 1984)

- Volcanism and geotectonics of the U. S. northwestern continental margin; Oregon and Washington (Loeschke, Joerg. 1980)
- Sea-floor spreading:** Preliminary geological, geophysical, and biological data from the Gorda Ridge (Clague, David A. 1984)
- The Mount Diablo and Josephine ophiolites, Rogue and Xolapa arcs, Middle Jurassic plutons of the Sierra Nevada, and Sacramento Valley ophiolitic basement; remnants of a major east-west-trending Middle Jurassic arc and spreading center system along the west margin of North America? (Williams, Kathleen M. 1983)
- Pacific Ocean—Economic geology**
- Fuel resources:** Oil and gas developments in West Coast area in 1982 (Dainty, N. D. 1983)
- Researchers applaud Pacific scan results (McCloy, Marjorie. 1984)
- Mineral resources:** Researchers applaud Pacific scan results (McCloy, Marjorie. 1984)
- Pacific Ocean—Environmental geology**
- Geologic hazards:** Tsunami; a wave like no others (Witten, Don. 1984)
- Pollution:** Ecological studies of radioactivity in the Columbia River and adjacent Pacific Ocean (Osterberg, Charles L. 1967)
- Sinking rates of radioactive fallout particles in the North East Pacific Ocean, 1961-62 (Gross, M. Grant. 1967)
- Pacific Ocean—Geochemistry**
- Pore water:** Appendix II; Interstitial water studies on small core samples, legs 16, 17, and 18 (Waterman, Lee S. 1973)
- Pacific Ocean—Geophysical surveys**
- Acoustical surveys:** Depositional environments within high-energy tidally dominated embayments along Pacific margin, United States (Rappeport, M. L. 1980)
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- Researchers applaud Pacific scan results (McCloy, Marjorie. 1984)
- Electrical surveys:** A channeled current driven into the Pacific Northwest by coastal geometry (Hensel, E. Gerald. 1981)
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- Geophysical data collected across the continental margin between Washington and Oregon along line 16, USGS R/V S. P. Lee cruise 11-80 (Snavey, P. D., Jr. 1983)
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- Heat flow (Connard, G. G. 1984)
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- Remote sensing:** Rhythmic shorelines on the Oregon coast (Garow, H. C. 1982)
- Seismic surveys:** Crustal structure near the Juan de Fuca and Explorer plate boundary from seismic refraction data (Au, D. 1979)
- Multichannel seismic records of northern Washington and central Oregon Margin (Kulm, L. D. 1984)
- Multichannel seismic records, sections E-e and F-f, western Oregon margin (Kulm, L. D. 1984)
- Multichannel seismic-reflection profiles collected in 1977 in the eastern Pacific Ocean off of the Washington/Oregon coast (Mann, Dennis M. 1984)
- Preliminary geological, geophysical, and biological data from the Gorda Ridge (Clague, David A. 1984)
- Regional seismic refraction (McClain, K. J. 1984)
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- Surveys:** Appendix I, Part A; Site survey of the northern Oregon continental margin and Astoria Fan (Kulm, La Verne D. 1973)
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- Estuaries:** Sand dispersal patterns in small active margin estuaries (Peterson, C. D. 1981)
- Geophysical surveys:** Appendix I, Part A; Site survey of the northern Oregon continental margin and Astoria Fan (Kulm, La Verne D. 1973)
- Maps:** Abyssal plain and continental net-objective sedimentary thicknesses (Connard, G. G. 1984)
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- Marine geology:** Abyssal plain and continental net-objective sedimentary thicknesses (Connard, G. G. 1984)
- Geology of continental margin and Cascadia Basin (Kulm, L. D. 1984)
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- Origin and development of Cascadia deep-sea channel (Griggs, Gary B. 1973)
- Site 173 (Kulm, La Verne D. 1973)
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- Ocean circulation:** Circulation patterns in upwelling regimes (Smith, Robert L. 1983)
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- Shelf-break circulation, fronts, and physical oceanography; East and West Coast perspectives (Pietrafesa, Leonard J. 1981)
- Shelfbreak circulation, fronts and physical oceanography; East and West coast perspectives (Pietrafesa, Leonard J. 1983)
- Ocean floors:** Canyonland topography along the Blanco Transform and implications for the origin of submarine canyons (Embley, Robert W. 1983)
- EEZ bathymetry; ship time opportunities (Pryor, Donald. 1984)
- Geologic setting of massive sulfide deposits and hydrothermal vents along the southern Juan de Fuca Ridge (Normark, W. R. 1982)
- Initial results of a Seabeam swath mapping survey off northern California and Oregon (Embley, R. 1980)
- Offshore topography of the Western United States [between 32° and 49° N latitude] (Chase, T. E. 1981)
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- Western North American continental margin and adjacent ocean floor off Oregon and Washington (Kulm, L. D. 1984)
- Sedimentation:** Deposition on Pacific shelf edge; zone of contrasts (Field, Michael E. 1981)
- Holocene depositional evolution of a small active-margin estuary of the northwestern United States (Peterson, Curt D. 1984)
- Sediment dispersal and accumulation in Quinalt Canyon; introduction and implications of particle size analysis (Carson, B. 1984)
- Sediment sources and clay mineral distributions off the Oregon coast (Karlin, R. 1980)
- Sources and dispersal of terrigenous sediments on the Oregon-Washington continental slope (Krissek, L. A. 1981)
- Sources, dispersal, and contributions of fine-grained terrigenous sediments on the Oregon and Washington continental slope (Krissek, Lawrence Alan. 1982)
- Sediments:** Environmental controls on sediment texture and composition in low oxygen zones off Peru and Oregon (Krissek, Lawrence A. 1983)
- Massive zinc and iron-rich sulfide deposits associated with hot springs, Juan de Fuca Ridge (Delaney, J. R. 1982)
- Preliminary report on the sediments and radioactivity in the vicinity of the Columbia River effluent (Gross, M. Grant. 1963)
- Texture and mineralogy of continental margin sediments (Scheidegger, K. F. 1984)
- Pacific Ocean—Paleontology**
- Mollusca:** The North Pacific Miocene record of *Mytilus* (*Plicatomytilus*), a new subgenus of *Bivalvia* (Allison, R. C. 1976)
- Pacific Ocean—Petrology**
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- Pacific Ocean—Sedimentary petrology**
- Sedimentary rocks:** Clay petrology of mudstone, Leg 18, Deep Sea Drilling Project (Hayes, John B. 1973)
- Pacific Ocean—Seismology**
- Crust:** Crustal structure near the Juan de Fuca and Explorer plate boundary from seismic refraction data (Au, D. 1979)
- Evidence for the subducting lithosphere under southern Vancouver Island and western Oregon from teleseismic P wave conversions (Langston, Charles A. 1981)
- Maps:** Historical seismicity 1841-1979 (Kelly, S. M. 1984)
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- Microseisms:** Microseismicity on the Gorda Ridge (Solano-Borrego, Ariel E. 1982)
- Seismicity:** Historical seismicity 1841-1979 (Kelly, S. M. 1984)
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- Tsunamis:** Tsunami; a wave like no others (Witten, Don. 1984)

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— Pectinids as biochronologic indices in the Neogene of the eastern North Pacific (Addicott, W. O. 1978)

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Tertiary: Sections showing biostratigraphy and correlation of Tertiary rocks penetrated in wells drilled on the southern Oregon continental margin (Snively, P. D., Jr. 1982)

— Stratigraphy of continental shelf an coastal region (Peterson, C. P. 1984)

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— Cross sections E-E', F-F', F", and G-G'; western Oregon (Niem, A. R. 1984)

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— Relative motions between oceanic and continental plates in the Pacific Basin (Engelbreton, David Cal. 1982)

— Robert Hooke and the foundation of geology; a comparison of Steno and Hooke and the Hooke imprint on the Huttonian theory. The tectonic evolution of the Oregon continental margin; rotation of segment boundaries and possible spacetime relationships in the central High Cascades (Drake, Ellen Tan. 1981)

— Tectonic summary of Leg 18 (von Huene, Roland. 1973)

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— Gorda Plate motions from magnetic anomaly analysis (Riddiough, Robin P. 1980)

— Miocene ridge impingement and the spawning of secondary ridges off Oregon, Washington and British Columbia (Farrar, E. 1980)

— Preliminary description of massive sulfide samples from the southern Juan de Fuca Ridge (Koski, R. A. 1982)

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Phosphate deposits: Phosphogenic provinces of the Circum-Pacific region (Sheldon, R. P. 1979)

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— Stephanodiscus rhombus, a new diatom species from Pliocene deposits at Chiloquin, Oregon (Mahood, Albert D. 1981)

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— A Pleistocene low-elevation subalpine forest in the western Cascades, Oregon (Gottesfeld, A. S. 1981)

— Additions to the Miocene Succor Creek flora of Oregon and Idaho (Taggart, Ralph E. 1973)

— Angiosperm paleobiochemistry of the Succor Creek flora (Miocene) Oregon, USA (Niklas, Karl J. 1978)

— Causes of short-term sequential changes in fossil plant assemblages; some considerations based on a Miocene flora of the northwest United States (Cross, Aurel T. 1982)

— Chattawayia (Sterculiaceae); a new genus of wood from the Eocene of Oregon and its implications for xylem evolution of the extant genus Pterospermum (Manchester, Steven R. 1980)

— Eocene fruits, wood and leaves of the Fagaceae from the Clarno Formation of Oregon (Manchester, Steven R. 1983)

— Extinct juglandaceous fruits, wood and leaves allied to Pterocarya from the Eocene of Oregon (Manchester, Steven R. 1979)

— Fossil leaves from the Clarno Formation of Morrow County, Oregon (Gordon, Ian. 1983)

— Fossil wood of the Engelhardiaceae (Juglandaceae) from the Eocene of North America; Engelhardioxylon gen. nov. (Manchester, Steven R. 1983)

— Fruits and seeds of Tapiscia (Staphylaceae) from the middle Eocene of Oregon (Manchester, Steven R. 1983)

— Organelle preservation and protoplast partitioning in fossil angiosperm leaf tissues (Niklas, Karl J. 1983)

— The genus Nuphar from the Oligocene of Oregon (Thompson, James L. 1975)

— The Oligocene Bridge Creek Flora; comparisons with a modern coast redwood forest (Reiswig, Ken. 1981)

— Triplochitoxylon (Sterculiaceae); a new genus of wood from the Eocene of Oregon and its bearing on xylem evolution in the extant genus Triplochiton (Manchester, Steven R. 1979)

— Ultrastructure evidence for membrane bound structures in Miocene angiosperm leaf tissues, Succor Creek Flora (Niklas, Karl J. 1978)

Gymnosperms: A Pleistocene low-elevation subalpine forest in the western Cascades, Oregon (Gottesfeld, A. S. 1981)

— Woods of the Malvaes from the Paleogene Clarno Formation of Oregon (Manchester, Steven R. 1977)

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— Contemporary pollen distribution in coastal California and Oregon (Heusser, Linda E. 1983)

— Morphological-biochemical interrelationships in fossil angiosperm leaf tissues; implications for pre- and post-depositional environments (Niklas, Karl. 1980)

— Patterns of vegetation changes in the Succor Creek area of Oregon and Idaho during the late Miocene time (Taggart, Ralph E. 1971)

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— Paleoclimatic significance of the Oligocene and Neogene floras of the Northwestern United States (Wolfe, Jack A. 1981)

— People, places, and plunder; Oregonians hunt limb casts in Oregon (Bushman, Jeannette. 1982)

— Seven fossil floras in the rain shadow of the Cascade Mountains, Oregon (Ashwill, Melvin. 1983)

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— Cibotium oregonense, an Eocene tree-fern stem and petioles with internal structure (Barrington, David S. 1983)

— Equisetum clarnoi, a new species based on petrifications from the Eocene of Oregon (Brown, John Thomas. 1975)

— Petrified cryptogamic plants from the Clarno cherts of Oregon (Dennis, Robert L. 1974)

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— Selected geologic and hydrologic characteristics of the Basin and Range Province, Western United States; Pleistocene lakes and marshes (Williams, T. R. 1983)

Columbia Plateau: Ancient peoples of the Columbia Plateau (Knudson, Ruthann. 1980)

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— Depositional environments of some Pleistocene coastal terrace deposits, southwestern Oregon; case history of a progradational beach and dune sequence (Hunter, Ralph E. 1980)

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— Temperature aspects of late Quaternary marine molluscan faunas (Kennedy, G. L. 1980)

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- Paleoecology—Changes**
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- Paleoecology—Cretaceous**
Wyoming: Paleontology and paleoecology of the Lance Formation (Maastrichtian), east flank of Rock Springs Uplift, Sweetwater County, Wyoming (Breithaupt, Brent H. 1982)
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- Paleoecology—Eocene**
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- Paleoecology—Mammals**
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- Paleoecology—Miocene**
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- Paleoecology—Mollusca**
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- Oligocene:* Oligocene marine mollusks from the Pittsburg Bluff Formation in Oregon (Moore, E. J. 1976)
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 — Observations on Miocene phytogeographic changes from Trout Creek-Blue Mountains (Oregon) to the Payette (Idaho) floras (Fields, Patrick F. 1984)
 — Patterns of disturbance and vegetation change in the Miocene Succor Creek flora of Oregon-Idaho (Satchell, Loretta Simmonds. 1984)
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 — The stratigraphic distribution of broad-leaved and conifer pollen in Miocene volcanic sediments; a continuous pollen record in the Sucker Creek Formation, Oregon (Satchell, Loretta. 1982)
- Neogene:* The role of montane conifers in Neogene floras of the Pacific Northwest (Taggart, Ralph E. 1984)
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Pacific Coast: Marine palynology in the Northeast Pacific (Florer, Linda E. 1973)
- Paleoecology—Radiolaria**
Quaternary: Direct comparison of marine and continental climate records (Pisias, N. G. 1981)
- Paleoecology—Tertiary**
Regional: Mid Tertiary stratigraphy of the Oregon western Cascades (Orr, William N. 1982)
- Paleoecology—Triassic**
North America: Triassic coral build-ups in North America (Stanley, G. D., Jr. 1978)
- Paleogene see also under Stratigraphy; see also under Geochronology under Pacific Coast; see also under Stratigraphy under Pacific Coast*
- Paleogeography—Cenozoic**
California: Paleomagnetic constraints on the interpretation of early Cenozoic Pacific Northwest paleogeography (Wells, Ray E. 1984)
Western U.S.: Post-Oligocene tectonic rotation of the Oregon western Cascade Range and the Klamath Mountains (Magill, James. 1981)
- Paleogeography—Cretaceous**
Regional: A paleogeographic reinterpretation of some Middle Cretaceous units, north-central Oregon; evidence for a submarine turbidite system (Kleinans, Lewis C. 1984)
- Paleogeography—Eocene**
Pacific Coast: Sand transport through channels across an Eocene shelf and slope in southwestern Oregon, U.S.A. (Dot, R. H., Jr. 1979)
Regional: Mist gas field, Columbia County, Oregon (Bruer, Wesley G. 1980)
 — Shelf and deep-sea sedimentation in Eocene forearc basin, western Oregon; fan or non-fan? (Chan, M. A. 1983)
- Paleogeography—Jurassic**
California: A depositional contact between the Galice Formation and a Late Jurassic ophiolite in northwestern California and southwestern Oregon (Harper, Gregory D. 1983)
North America: Jurassic molluscan biogeography of western North America and implications to micro-continent accretion (Taylor, D. G. 1982)
Regional: A depositional contact between the Galice Formation and a Late Jurassic ophiolite in northwestern California and southwestern Oregon (Harper, Gregory D. 1983)
- Paleogeography—Miocene**
Regional: Tectonic and paleoenvironmental significance and magnetic-geochemical stratigraphy of the Columbia River Basalt at the middle Miocene shoreline, northwestern Oregon Coast Range (Murphy, Thomas M. 1982)
- Paleogeography—Mississippian**
Pacific Coast: Pacific Northwest region (Yates, R. G. 1979)
- Paleogeography—Paleozoic**
California: Stratigraphy and inferred tectonic framework of lower Paleozoic rocks in the eastern Klamath Mountains, northern California (Potter, A. W. 1977)
North America: Early Paleozoic Cordilleran biofacies, provinces, and realms (Johnson, J. G. 1983)
Western U.S.: Paleozoic plate tectonics and the evolution of the Cordilleran continental margin (Dickinson, W. R. 1977)
- Paleogeography—Pleistocene**
Basin and Range Province: Selected geologic and hydrologic characteristics of the Basin and Range Province, Western United States; Pleistocene lakes and marshes (Williams, T. R. 1983)
Washington: Geology of the Columbia Basin (Scott, W. Frank. 1980)
- Paleogeography—Tertiary**
Regional: Mid-Tertiary stratigraphy, petrology, and paleogeography of Oregon's central western Cascade Range (Miller, Paul R. 1984)
 — Tectonic rotation of the Oregon western Cascades (Magill, James. 1980)
 — Volcanism and structure in the vicinity of Echo Mountain, central Oregon Cascade Range (Avramenko, Walter. 1981)
- Paleogeography—Triassic**
North America: Paleozoogeographic affinities of Norian bivalves from the Wrangellian, peninsular, and Alexander terranes, western North America (Newton, Cathryn R. 1983)
Regional: ^{40}Ar - ^{39}Ar ages of some pre-Tertiary plutonic and metamorphic rocks of eastern Oregon and their geologic relationships (Ave Lallemant, H. G. 1980)

Paleomagnetism—Applications

Neotectonics: Magnetostratigraphy of sediments in the Atlantic Coastal Plain and Pacific Coast of the United States as an aid for dating tectonic deformation (Liddicoat, J. C. 1981)

Plate tectonics: Rotation of microplates in western North America (Cox, Allan. 1980)

Tectonics: Post-Oligocene tectonic rotation of the Oregon western Cascade Range and the Klamath Mountains (Magill, James. 1981)

Paleomagnetism—Cenozoic

California: Paleomagnetic constraints on the interpretation of early Cenozoic Pacific Northwest paleogeography (Wells, Ray E. 1984)

Pacific Coast: Apparent clockwise rotations in the central Columbia Plateau; paleomagnetic evidence (Reidel, S. P. 1982)

Regional: A magnetic investigation of Mt. Hood, Oregon (Williams, D. L. 1979)

— Geology of the northwest one-quarter of the Prineville quadrangle, central Oregon (Thormahlen, David J. 1984)

— Tectonic implications and paleomagnetic evidence for post Oligocene rotation of the Oregon Cascades (Magill, J. 1980)

Paleomagnetism—Changes

Natural remanent magnetization: Interpretation of aeromagnetic data over the Josephine Peridotite, southwestern Oregon, and implications for marine magnetic anomalies (Blakely, Richard J. 1980)

Paleomagnetism—Cretaceous

Pacific Coast: Paleomagnetism of the Upper Cretaceous Hornbrook Formation; implications for tectonic rotation of the Klamath Mountains Province (Schultz, K. L. 1981)

Regional: Tectonostratigraphic terranes in southwestern Oregon (Blake, M. C., Jr. 1984)

Paleomagnetism—Eocene

Regional: Cenozoic tectonic rotations of Oregon and Washington (Magill, James Robert. 1981)

— Paleomagnetic evidence for tectonic rotation of the Clarno Formation, Oregon (Gromme, C. S. 1981)

— Sedimentation during collision and rotation of the Oregon Coast Range; constraints on models of tectonic rotation (Heller, Paul L. 1983)

— Tillamook Volcanic Series; further evidence for tectonic rotation of the Oregon Coast Range (Magill, James. 1981)

— Trench fill to forearc transition in the rotated Eocene flysch basin of the southern Oregon Coast Range (Heller, Paul L. 1982)

Paleomagnetism—Holocene

North America: Characteristics of Holocene secular variation in western North America (Verosub, Kenneth L. 1984)

— Diagenesis of magnetic minerals in Recent hemipelagic sediments (Karlin, R. 1982)

Regional: A 13,000 year record of Holocene secular variation from Fish Lake, Steens Mountain, southeastern Oregon (Verosub, Kenneth L. 1981)

— Congruent paleomagnetic and archaeomagnetic records from the western United States; 450 B.P.-1400 B.P. (Verosub, Kenneth L. 1983)

— Detailed secular variation for the past few thousand years from marine sediments off the coast of Oregon (Karlin, R. 1981)

— Effects of laboratory drying on remanence of hemipelagic sediments (Levi, S. 1982)

— Paleomagnetic "dating" of Holocene volcanic activity at Mount Mazama, Crater Lake, Oregon (Champion, Duane E. 1983)

— Paleomagnetism, rock magnetism, and diagenesis in hemipelagic sediments from the Northeast Pacific Ocean and the Gulf of California (Karlin, Robert. 1984)

Paleomagnetism—Jurassic

California: Paleomagnetism of metavolcanic rocks of the Upper Jurassic Galice Formation, western Klamath Mountains, California and Oregon (Bogen, Nicholas L. 1984)

Pacific Coast: Paleomagnetism of Jurassic plutons in the central Klamath Mountains, southern Oregon and northern California (Schultz, Karin L. 1983)

— The Mount Diablo and Josephine ophiolites, Rogue and Xolapa arcs, Middle Jurassic plutons of the Sierra Nevada, and Sacramento Valley ophiolitic basement; remnants of a major east-west-trending Middle Jurassic arc and spreading center system along the west margin of North America? (Williams, Kathleen M. 1983)

Regional: Paleomagnetic evidence for tectonic rotation of Jurassic plutons in Blue Mountains, eastern Oregon (Wilson, D. 1980)

— Paleomagnetism of middle Jurassic plutons of the north-central Klamath Mountains (Schultz, Karin L. 1983)

Paleomagnetism—Mesozoic

California: Implications of paleomagnetism for the tectonic history of the eastern Klamath and related terranes in California and Oregon (Mankinen, Edward A. 1984)

— Paleomagnetic results from the Coast Range Ophiolite in northern California and southern Oregon (Frei, Leah S. 1983)

Paleomagnetism—Miocene

Columbia Plateau: Paleomagnetic evidence for spatially distributed post-Miocene rotation of western Washington and Oregon (Sheriff, Steven D. 1984)

— Stratigraphy of the Grande Ronde Basalt, Columbia River Basalt Group, from the lower Salmon River and northern Hells Canyon area, Idaho, Oregon, and Washington (Reidel, Stephen P. 1982)

Idaho: A paleomagnetic survey of Miocene lavas in northern Oregon, southeastern Washington, and west-central Idaho (Watkins, N. D. 1964)

Regional: A complete vectorial description of the geomagnetic field during a polarity transition (Prevot, M. 1982)

— A paleomagnetic survey of Miocene lavas in northern Oregon, southeastern Washington, and west-central Idaho (Watkins, N. D. 1964)

— Anomalous paleomagnetic directions from the Miocene Wanapum Basalt, Washington and Oregon (Sheriff, Steven D. 1980)

— Areal extent and isotope geochemistry of the Steens Mountain flood basalt, southeastern Oregon (Carlson, Richard W. 1983)

— Detailed behavior of the geomagnetic field during the Steens Mountain (Oregon) polarity transition (Prevot, M. 1983)

— Geophysical and geochemical analyses of selected Miocene coastal basalt features, Clatsop County, Oregon (Pfaff, Virginia Josette. 1981)

— Paleointensity study of the Steens Mountain, Oregon polarity transition (Mankinen, E. A. 1983)

— Paleomagnetism of basalts in northeastern Oregon and west-central Idaho (Martin, Barton S. 1984)

— Remanent magnetization of the Columbia River Group in western Washington and Oregon (Rietman, Jan D. 1968)

— Tectonic and paleoenvironmental significance and magnetic-geochemical stratigraphy of the Columbia River Basalt at the middle Miocene shoreline, northwestern Oregon Coast Range (Murphy, Thomas M. 1982)

Washington: A paleomagnetic survey of Miocene lavas in northern Oregon, southeastern Washington, and west-central Idaho (Watkins, N. D. 1964)

— Anomalous paleomagnetic directions from the Miocene Wanapum Basalt, Washington and Oregon (Sheriff, Steven D. 1980)

— Columbia River Basalt stratigraphy and rotation in Southwest Washington (Wells, R. E. 1983)

— Remanent magnetization of the Columbia River Group in western Washington and Oregon (Rietman, Jan D. 1968)

— Stratigraphy and petrogenesis of the Grande Ronde Basalt from the deep canyon country of Washington, Oregon, and Idaho (Reidel, S. P. 1983)

— Tectonic rotations recorded by flows in the Columbia River Basalt Group, Washington and Oregon (Simpson, R. W. 1982)

Paleomagnetism—Neogene

Regional: The geology and stratigraphy of the Tertiary volcanic and volcanoclastic rocks, with special emphasis on the Deschutes Formation, from Lake Simustus to Madras in central Oregon (Jay, Jeremy Barth. 1983)

Paleomagnetism—Permian

British Columbia: A petrologic and tectonic comparison of the Hell's Canyon area, Oregon-Idaho, and Vancouver Island, British Columbia (Scheffler, Joanna March. 1983)

Paleomagnetism—Phanerozoic

California: Paleomagnetism in the Klamath Mountains, California and Oregon (Irwin, William P. 1983)

Regional: The pre-Tertiary tectonics of the Blue Mountains region, NE Oregon (Ave Lallemant, Hans G. 1983)

Paleomagnetism—Pleistocene

Depletion of incompatible trace elements in successively erupted groups of lavas at Battle Ax Mountain, Cascade Range, Oregon (White, Craig M. 1983)

Paleomagnetism—Quaternary

California: Biostratigraphy of Quaternary marine invertebrate faunas, coastal northern California and southern Oregon (Kennedy, G. L. 1980)

Regional: Mono Lake geomagnetic excursion found at Summer Lake, Oregon (Negri, Robert M. 1984)

— The Mono Lake excursion as recorded by lacustrine sediments from Summer Lake, Oregon (Negri, Robert M. 1983)

Western U.S.: Development of a 150,000 year record of geomagnetic secular variation from lacustrine sediments of the western United States (Verosub, Kenneth L. 1982)

Paleomagnetism—Tertiary

California: Paleomagnetic results from the Coast Range Ophiolite in northern California and southern Oregon (Frei, Leah S. 1983)

Idaho: Magnetostratigraphy of the Grande Ronde Basalt, Pasco Basin, Washington (Packer, Duane R. 1979)

Pacific Coast: Rotation mechanisms in western Oregon and Washington (Coe, R. S. 1982)

Regional: Magnetostratigraphy of the Grande Ronde Basalt, Pasco Basin, Washington (Packer, Duane R. 1979)

— Mid-Tertiary history of the Oregon western Cascades (Miller, Paul R. 1984)

— Paleomagnetism of intrusive rocks in the Coast Range of Oregon; microplate rotations in middle Tertiary time (Beck, M. E., Jr. 1980)

— Paleomagnetism of Tertiary intrusive rocks in the Oregon Coast Range; timing and mechanism of tectonic rotation (Plumley, Peter W. 1980)

— Some aspects of magnetic viscosity in subaerial and submarine volcanic rocks (Prevot, M. 1981)

- Tectonic rotation of the Oregon western Cascades (Magill, James. 1980)
- Washington:** Has the Washington-Oregon Coast Range moved northward? (Beck, Myrl E., Jr. 1984)
- Magnetostratigraphy of the Grande Ronde Basalt, Pasco Basin, Washington (Packer, Duane R. 1979)
- Paleomagnetism—Triassic**
 - British Columbia:** A petrologic and tectonic comparison of the Hell's Canyon area, Oregon-Idaho, and Vancouver Island, British Columbia (Scheffler, Joanna March. 1983)
 - Regional:** Paleomagnetism and Mesozoic tectonics of the Seven Devils volcanic arc in northeastern Oregon (Hillhouse, John W. 1982)
- Paleontology**
 - Bibliography:** Bibliography of Oregon paleontology, 1792-1983 (Orr, Elizabeth L. 1984)
 - Echinodermata:** Mid-Tertiary echinoids from the Oregon western Cascades (Linder, Robert. 1983)
 - Oregon Eocene echinoids (Linder, Robert A. 1984)
 - Ichnofossils:** Fossil bear tracks in Lake County, Oregon (Packard, Earl L. 1980)
 - The trace fossil *Cylindrichnus* in the Oregon Oligocene (Orr, William N. 1984)
 - Invertebrata:** Distribution of Oregon fossils (Orr, William N. 1984)
 - Paleontology of the Oregon portion of Lake Idaho (Smith, Richard. 1980)
 - Mammalia:** Alonzo Wesley "Lon" Hancock (1884-1961); a profile (Oberson, V. L. 1979)
 - Cf. *Condylura* (Mammalia: Talpidae) from the late Tertiary of Oregon (Hutchison, J. Howard. 1984)
 - Eastern North American Pleistocene *Ochotona* (Lagomorpha; Mammalia) (Guilday, J. E. 1979)
 - Excavation and study of prehistoric bones from a site near Nysa, Oregon (Brown, Terri. 1980)
 - Fossil marine mammals of Oregon (Ray, Clayton E. 1976)
 - Mammals of the Oregon Pleistocene (Gamer, Robert L. 1984)
 - Mammals of the Oregon Pleistocene; Part I (Gamer, Robert L. 1983)
 - Middle Tertiary Cetacea in western Oregon (Orr, William N. 1982)
 - Successions of meniscomyine and allomyine rodents (Aplodontidae) in the Oligo-Miocene John Day Formation, Oregon (Rensberger, John M. 1983)
 - The cranial morphology of the fossil beaver *Dipoides smithi* (Rodentia; Mammalia) (Wagner, Hugh M. 1983)
 - The extinct mammalian order *Desmostylia* (Reinhart, Roy H. 1982)
 - The Warm Springs fauna (Mammalia, Hemingfordian) from the western facies of the John Day Formation, Oregon (Dingus, Lowell. 1979)
 - Mollusca:** Along the Oregon coast (Harper, Dorothy. 1983)
 - Fossil Point, Coos Bay, Oregon (Lowicki, Ed. 1982)
 - Geographic uncertainties in the West American Donacidae (Coan, Eugene. 1983)
 - Paleogene marine gastropods of the Keasey Formation in Oregon (Hickman, C. S. 1980)
 - The North Pacific Miocene record of *Mytilus* (*Plicatomytilus*), a new subgenus of *Bivalvia* (Allison, R. C. 1976)
 - Trigonid bivalves from the Bajocian (Middle Jurassic) rocks of central Oregon (Poulton, T. P. 1980)
 - Pisces:** Notes on the origin of Biggs Jasper (Shaub, B. M. 1978)
 - Plantae:** Distribution of Oregon fossils (Orr, William N. 1984)
 - Porifera:** The Tertiary sponges *Aphrocallistes* and *Eurete* from western Washington and Oregon (Rigby, J. Keith. 1983)
 - Radiolaria:** Lower and Middle Jurassic Radiolaria (multicyrtid *Nassellariina*) from California, east-central Oregon and the Queen Charlotte Islands, B.C. (Pessagno, Emile A., Jr. 1982)
 - Upper Triassic and Jurassic *Pantaneolinae* from California, Oregon and British Columbia (Pessagno, Emile A., Jr. 1980)
 - Upper Triassic *Capnuchosphaeridae* and *Capnodocinae* (Radiolaria) from east-central Oregon (Blome, Charles D. 1983)
 - Vertebrata:** Additions to the early Hemphillian (Miocene) Rattlesnake fauna from central Oregon (Martin, James E. 1983)
 - Correlation of Hemphillian faunas in the northwest to those on the Great Plains (Martin, James E. 1980)
 - Distribution of Oregon fossils (Orr, William N. 1984)
- Paleontology—Practice**
 - Collecting:** The fossil hunter (Gerbec, Tom. 1982)
 - Collections:** Alonzo Wesley "Lon" Hancock (1884-1961); a profile (Oberson, V. L. 1979)
- Paleotemperature** see Geologic thermometry under Fluid inclusions
- Paleozoic** see also under Stratigraphy; see also under Stratigraphy under Basin and Range Province; Pacific Coast
- Palynomorphs—Biogeography**
 - Miocene:** Observations on Miocene phytogeographic changes from Trout Creek-Blue Mountains (Oregon) to the Payette (Idaho) floras (Fields, Patrick F. 1984)
- Palynomorphs—Biostratigraphy**
 - Cretaceous:** Subsurface stratigraphy of the Ochoco Basin, Oregon (Thompson, G. G. 1984)
 - Miocene:** Patterns of vegetation changes in the Succor Creek area of Oregon and Idaho during the late Miocene time (Taggart, Ralph E. 1971)
- Palynomorphs—Floral studies**
 - Miocene:** Effects of periodic volcanism on Miocene vegetation distribution in eastern Oregon and western Idaho (Taggart, Ralph E. 1982)
- Palynomorphs—Miospores**
 - Cenozoic:** Late Cenozoic marine palynology of northeastern Pacific Ocean cores (Florer-Heusser, Linda E. 1975)
 - Eocene:** Fossil plants of the Eocene Clarno nut beds (Manchester, Steven R. 1981)
 - Holocene:** Contemporary pollen distribution in coastal California and Oregon (Heusser, Linda E. 1983)
 - Miocene:** Additions to the upper Miocene Succor Creek flora (Cross, A. T. 1971)
 - Miocene palynosuccessions; volcanic or glacial cause? (Mudie, P. J. 1984)
 - Morphological-biochemical interrelationships in fossil angiosperm leaf tissues; implications for pre- and post-depositional environments (Niklas, Karl. 1980)
 - Palynology of interflow sediments in the Columbia River basins (Miocene), Washington and Oregon (Fisk, Lanny H. 1977)
 - Palynology of the ?Miocene Alvord Creek Formation, southeastern Oregon (Barnett, Stephen F. 1984)
 - Patterns of disturbance and vegetation change in the Miocene Succor Creek flora of Oregon-Idaho (Satchell, Loretta Simmonds. 1984)
 - Role of broadleaved deciduous trees in post-disturbance vegetation of the Miocene Succor Creek flora (Satchell, L. S. 1984)
 - The role of Tertiary volcanism in the modernization of terrestrial communities in the Pacific Northwest (Taggart, Ralph E. 1984)
 - The stratigraphic distribution of broad-leaved and conifer pollen in Miocene volcanic sediments; a continuous pollen record in the Sucker Creek Formation, Oregon (Satchell, Loretta. 1982)
 - Neogene:** The palynology of a non-marine Neogene deposit in the Willamette Valley, Oregon (Roberts, Michael C. 1984)
 - The role of montane conifers in Neogene floras of the Pacific Northwest (Taggart, Ralph E. 1984)
 - Oligocene:** Comparison of the Oligocene Bridge Creek palynoflora (Oregon) with that from a modern Coast Redwood forest (Reiswig, Kenneth N. 1984)
 - Pliocene:** Palynology and age of the Alvord Creek Formation, Steens Mountain, southeastern Oregon (Barnett, Stephen F. 1984)
 - Quaternary:** Marine palynology in the Northeast Pacific (Florer, Linda E. 1973)
 - Quaternary paleoecology of northwest California and southwest Oregon (Heusser, Linda E. 1982)
- Record of natural disturbances in the sediments of a protected lake in the Cascade Mountains (Raymond, Richard B. 1984)
- Vegetational history of the northwestern United States including Alaska (Heusser, Calvin J. 1983)
- Tertiary:** Ornamentation of polypodiaceous spores from the Tertiary of North America (Elsik, W. C. 1978)
- Paleoclimatic significance of the Oligocene and Neogene floras of the Northwestern United States (Wolfe, Jack A. 1981)
- Palynomorphs—Paleoecology**
 - Holocene:** The paleolimnology of Bull Run Lake; disruption and stability in a natural system (Raymond, Richard Brian. 1983)
 - Oligocene:** Oregon western Cascades Oligocene biofacies (Orr, William N. 1983)
 - Quaternary:** A paleoecological study of the northern Great Basin or rat amber, tephra, fossil pollen (Benedict, Ellen M. 1982)
 - Direct comparison of marine and continental climate records (Pisias, N. G. 1981)
- Paragenesis—Base metals**
 - Regional:** An investigation of fluid inclusions and geochemistry of ore formation in the Cedar Creek breccia pipe, North Santiam mining district, Oregon (Winters, Mark B. 1984)
- Paragenesis—Igneous rocks**
 - Regional:** The Cenozoic geology and alteration at Neals-Bully Creek, Oregon (Lenney, Thomas William. 1980)
- Paragenesis—Mercury ores**
 - Regional:** Hydrothermal alteration and mineralization at the Black-butte mercury mine, Lane County, Oregon (Derkey, Robert E. 1981)
- Paragenesis—Metamorphic rocks**
 - Pacific Coast:** Tilted plutons in the Klamath Mountains (Barnes, C. G. 1983)
- Paragenesis—Minerals**
 - Regional:** Platinum-group minerals in alpine chromitites from southwestern Oregon (Stockman, Harlan W. 1984)
- Pelecypoda** see *Bivalvia* under *Mollusca*
- Pennsylvanian** see also under Stratigraphy; see also under Stratigraphy under Pacific Coast
- Periglacial features** see under Glacial geology
- Permian** see also under Stratigraphy
- Petroleum** see also under Economic geology; see also under Economic geology under Basin and Range Province; Pacific Coast; Pacific region
- Petrology**
 - Igneous rocks:** A possible ophiolite sequence at Frenchy Butte, Oregon (Hansen, Renate. 1982)
 - A stratigraphically controlled variation in whole rock and mineral chemistry in the subalkaline and peralkaline volcanic rocks of Hart Mountain, Oregon (Brennenman, Robert J. 1983)

- A study of the chemical and physical characteristics of pumice from Glacier Peak, Washington and Mt. Mazama (Crater Lake), Oregon; report of progress, June 16-September 7, 1963 (Steen, Virginia C. 1964)
 - An island arc origin for the Canyon Mountain ophiolite complex, eastern Oregon, U.S.A. (Gerlach, David C. 1981)
 - Application of pyroxene and olivine-spinel geothermometers to spinel peridotites in southwestern Oregon (Henry, D. J. 1980)
 - Areal extent and isotope geochemistry of the Steens Mountain flood basalt, southeastern Oregon (Carlson, Richard W. 1983)
 - Basalt geology of eastern Oregon (Farooqui, Shannon and Wilson. 1978)
 - Basalts of Oregon compared with Paleozoic eugeosynclinal volcanic rocks of Europe; geotectonic position and geochemical composition (Loeschke, J. 1980)
 - Cenozoic ash-flow tuffs of Oregon (Walker, George W. 1970)
 - Central High Cascade roadside geology; Bend, Sisters, McKenzie Pass, and Santiam Pass, Oregon (Taylor, Edward M. 1981)
 - Collecting obsidian at Glass Butte (McGuire, Catherine. 1980)
 - Contrasting styles of basaltic volcanism; Chilcotin (British Columbia) and Columbia River Basalt Groups (Bevier, Mary Lou. 1983)
 - Deposition and deformation of the Eocene Umpqua Group, Sutherlin area, southwestern Oregon (Perttu, R. K. 1980)
 - Downwind tephra from Mount St. Helens before 1980 (Smith, Henry W. 1982)
 - Effects of thermal melt history on textures of Grande Ronde Columbia River pillow basalts (Schiffman, Peter. 1981)
 - Electron microscopic examination of zeolitization and cooling devitrification in silicic volcanic rocks (Tarshis, Andrew Lorie. 1982)
 - Explosive volcanism; a possible source for aggregate formation on Mars (Fink, Jonathan. 1980)
 - Geobotanical discrimination of ultramafic parent materials; an evaluation of remote sensing techniques (Mouat, D. A. 1982)
 - Geochemical and isotopic inferences on the nature of the crust and mantle; northwestern U.S.A. (Hart, W. K. 1982)
 - Geochemical study of the Steens Mountain flood basalt (Carlson, Richard W. 1983)
 - Geochemistry of post-glacial dacites from Mt. Hood, Oregon (White, Craig M. 1980)
 - Geology and alteration of Bear Creek Butte, central Oregon (Wilkening, R. Matthew. 1984)
 - Geology and geochemistry of selected cinder cones, Crater Lake National Park, Oregon (Prueher, Libby. 1984)
 - Geology and geochemistry of volcanic rocks in the Detroit area, Western Cascade Range, Oregon (White, Craig McKibben. 1980)
 - Geology and petrogenesis of Gearhart Mountain, an andesitic volcano in the Basin and Range Province of Oregon (Brikowski, Tom H. 1983)
 - Geology of the Cougar Reservoir area, Lane County, Oregon (Priest, George R. 1981)
 - Geology of the igneous complex at Tincup Peak, Kalmiopsis Wilderness Area, southwestern Oregon (Gray, Floyd. 1982)
 - Geology of the igneous complex of Tincup Peak, Kalmiopsis wilderness area, southwestern Oregon (Gray, Floyd. 1980)
 - Geology of the Lookout Point area, Lane County, Oregon (Woller, Neil M. 1982)
 - Glass domes at Round Top Butte, Glass Buttes silicic complex, south-central Oregon (Cummings, Michael L. 1984)
 - Guide to geologic field trip between Kimberly and Bend, Oregon with emphasis on the John Day Formation (Robinson, Paul T. 1981)
 - Guides to some volcanic terranes in Washington, Idaho, Oregon, and northern California (Johnston, D. A. 1981)
 - High Cascade ash-flow tuffs and pumice deposits in the vicinity of Bend, Oregon (Taylor, E. M. 1980)
 - Igneous rocks near Marial, Rogue River, southwestern Oregon (Gullixson, C. F. 1980)
 - Imbrication, flow direction and possible source areas of the pumice-flow tuffs near Bend, Oregon, U.S.A. (Mimura, Koji. 1984)
 - Late Cenozoic volcanic geology of the Jordan Valley area, S.E. Oregon (Hart, William K. 1980)
 - Lherzolitic and wehrlitic rock series at Tincup Peak, Klamath Mountains, southwestern Oregon (Gray, F. 1980)
 - Metal alloys in the Josephine Peridotite; a comparison of in-situ and nugget examples (Leavell, Daniel N. 1983)
 - Mineralogical studies of the hydrothermal system in Newberry Volcano drill Hole 2, Oregon (Keith, Terry E. C. 1984)
 - Petrology and major element geochemistry of albite granite near Sparta, Oregon (Almy, Robert, III. 1977)
 - Petrology, geochemistry and origin of the Sparta quartz diorite-trondhjemite complex, northeastern Oregon (Phelps, D. 1979)
 - Petrology of gabbro and peridotite of the Canyon Mountain Complex, Northeast Oregon (Mullen, Ellen D. 1983)
 - Petrology of mafic rocks from the Canyon Mountain ophiolite complex (Leeman, William P. 1983)
 - Petrology of the Bend Pumice & Tumalo Tuff; a Pleistocene Cascade eruption involving magma mixing (Hill, Brittain E. 1984)
 - Petrology of the Cenozoic volcanic rocks of the basal Clarno Formation, central Oregon (Wilson, P. McD. 1973)
 - Petrology of ultramafic and gabbroic rocks of the Canyon Mountain ophiolite, Oregon (Himmelberg, G. R. 1980)
 - Platinum-group minerals in alpine chromitites from southwestern Oregon (Stockman, Harlan W. 1984)
 - Pre-Tertiary plutonic rocks in the Snake River Canyon, Oregon/Idaho; intrusive roots of a Permo-Triassic arc complex (Walker, Nicholas. 1982)
 - Reply to discussion by Larson and Strangway of "Correlation of petrology and natural magnetic polarity in Columbia Plateau basalts" (1967) (Watkins, N. D. 1968)
 - Roadlog for central High Cascade geology; Bend, Sisters, McKenzie Pass, and Santiam Pass, Oregon (Taylor, Edward M. 1981)
 - Roadlog for geologic field trip between Kimberly and Bend, Oregon with emphasis on the John Day Formation (Robinson, Paul T. 1981)
 - Sheeted dikes of the Wild Rogue Wilderness, Oregon (Ramp, Len. 1980)
 - Spinel peridotites of the Gold Beach area, southwestern Oregon (Henry, Darrell James. 1976)
 - Stratigraphy, structure and petrology of Columbia River Basalt in a portion of the Grande Ronde River-Blue Mountains area of Oregon and Washington (Ross, Martin E. 1978)
 - Strontium isotopic study of a basalt rhyodacite contact, Robin Hood Quarry, northern Oregon (Brookins, Douglas. 1984)
 - The Cascade Province (McBirney, A. R. 1982)
 - The Cenozoic geology and alteration at Neals-Bully Creek, Oregon (Lenney, Thomas William. 1980)
 - The reinterpretation of Leone Lake Sediments as a pyroclastic surge deposit and its tectonic significance (McDonough, William F. 1984)
 - The Scoria Cone pit crater and its uncollapsed relatives, Crater Lake National Park, Oregon (Mertzman, Stanley A. 1980)
 - The structure and stratigraphy of the Columbia River Basalt in the Chehalis Mountains, Oregon (Al-Eisa, Abdul-Rahman Mohammed. 1980)
 - The structure, stratigraphy and correlation of the Grande Ronde Basalts on Tygh Ridge, Wasco County, Oregon (Vandiver-Powell, Lorraine. 1981)
 - The Unity Reservoir rhyodacite tuff-breccia and associated volcanic rocks, Baker County, Oregon (Reef, John W. 1983)
 - Three newly recognized occurrences of Rattlesnake Ignimbrite in central Oregon (Smith, Gary. 1984)
 - Volcanic and volcanoclastic rocks on the east flank of the central Cascade Range to the Deschutes River, Oregon (Taylor, Edward M. 1980)
 - Volcanic rocks of the McDermitt Caldera, Nevada-Oregon (Greene, R. C. 1976)
 - Volcanic stratigraphy and alteration mineralogy of drill cuttings from EWEB 1 drill hole, Linn County, Oregon (Keith, T. E. C. 1981)
 - Volcanic stratigraphy and alteration mineralogy of drill cuttings from EWEB 2 drill hole, Linn County, Oregon (Keith, T. E. C. 1981)
 - Volcanic stratigraphy and alteration mineralogy of drill cuttings from EWEB 3 drill hole, Clackamas County, Oregon (Keith, T. E. C. 1980)
 - Wyrddite; petrogenesis of an extraordinary mining assemblage (Burton, James Hutson, III. 1981)
- Inclusions:** A model for the origin of calc-alkaline andesites at Crater Lake, Oregon (Pinta, James, Jr. 1981)
- Petrology of the basic inclusions of the andesites and dacite domes of Crater Lake, Oregon (Jacobson, Sara Sue. 1978)
- Intrusions:** Chemical and mineralogical variations within four dikes of the Columbia River Basalt Group, southeastern Columbia Plateau (Ross, M. E. 1983)
- Diatremes in Columbia River basalt near the crest of the west escarpment of the Grande Ronde Graben, northeast Oregon (Taubeneck, W. H. 1980)
- Differentiation of a gabbro sill in the Oregon Coast Range by crystallization-zone settling (MacLeod, N. S. 1981)
- Origin of comb layering in the Willow Lake Intrusion, N.E. Oregon (Carpenter, Paul Kenneth. 1983)
- Precambrian and postaccretion plutonic belts in allochthonous terranes of the Klamath Mountains, California and Oregon (Irwin, William P. 1983)
- The geology and geochemistry of the North Fork Stock, northeastern Oregon (Matty, David Joseph. 1979)
- The geology of the contact zone of the Wallowa Batholith near Aneroid Lake, Oregon (Reich, David E. 1984)
- Lava:** Guide to geologic field trip between Lewiston, Idaho, and Kimberly, Oregon, emphasizing the Columbia River Basalt Group (Swanson, D. A. 1981)
- High Lava Plains, Brothers fault zone to Harney Basin, Oregon (Walker, George W. 1981)
- Petrogenesis of divergent magmas at South Sister Volcano, High Cascade Range, Oregon (Clark, James G. 1983)

- Petrology of Diamond Craters; south-eastern Oregon (Russell, James K. 1982)
- Roadlog for geologic field trip between Lewiston, Idaho, and Kimberly, Oregon (Swanson, D. A. 1981)
- Roadlog for High Lava Plains, Brothers fault zone to Harney Basin, Oregon (Walker, George W. 1981)
- Tholeiitic lavas from the basal portions of the western Cascade sequences in Oregon (White, Craig M. 1980)
- Magma:** Divergent magmas at Crater Lake, Oregon; products of fractional crystallization and vertical zoning in a shallow, water-undersaturated chamber (Ritchey, J. L. 1980)
- Hydrogen isotope fractionation during degassing of rhyolitic magma (Taylor, B. E. 1983)
- Petrography and geochemistry of the Illinois River gabbros, Kalmiopsis wilderness area, southwestern Oregon (Nicholson, Suzanne Warner 1981)
- The stability of amphibole in andesite and basalt at high pressures (Allen, J. C. 1983)
- Maps:** Map showing distribution, composition, and age of late Cenozoic volcanic centers in Oregon and Washington (Luedke, R. G. 1982)
- Map showing distribution, composition, and age of late Cenozoic volcanoes and volcanic rocks of the Cascade Range and vicinity, northwestern United States (Luedke, R. G. 1983)
- Map showing distribution of serpentine minerals, density, and magnetic susceptibility of rocks from the Kalmiopsis Wilderness, southwestern Oregon (Barnard, J. B. 1981)
- Map showing geologic, geophysical, and geochemical characteristics of granitic plutons in the Medford 1° by 2° quadrangle, Oregon-California (Page, N. J. 1983)
- Map showing outcrops of granitic rocks and pre-Quaternary ash-flow tuffs, Basin and Range Province, Oregon (Jenness, Jane E. 1984)
- Map showing outcrops of pre-Quaternary basaltic rocks, Basin and Range Province, Oregon (Jenness, Jane E. 1984)
- Metamorphic rocks:** Dehydration origin of metamorphic spinifex (jackstraw) texture; evidence from the Greenhorn Mountains, northeast Oregon (Mullen, E. D. 1980)
- Petrology of the Rogue River island-arc complex, southwest Oregon (Garcia, Michael O. 1982)
- Preliminary geochemistry of greenstones from the pre-Tertiary oceanic terrane of the Blue Mountains, northeast Oregon (Mullen, Ellen D. 1982)
- Significance of metaroddingite in the Wrangle Gap-Red Mountain ultramafic complex, Klamath Mountains, Oregon (Rice, J. M. 1980)
- Tectonic inclusions in serpentinites (Coleman, R. G. 1980)
- Temperature-pressure progression in high pressure Permian-Triassic metamorphic rocks of N.E. Oregon (Mullen, Ellen D. 1980)
- Volcanism and sedimentation of a Late Jurassic to Early Cretaceous Franciscan terrane near Bosley Butte, southwestern Oregon (Wiggins, Brian Douglas. 1980)
- Metamorphism:** Prograde metamorphism of serpentinites in the western Paleozoic and Triassic belt, Klamath Mountains Province (Medaris, L. G., Jr. 1980)
- Metasomatism:** Development of alteration rinds around high-grade tectonic blocks in the Franciscan Complex, California and Otter Point Formation, southern Oregon (Moore, Diane E. 1980)
- Geology, geochemistry and hydrothermal alteration, Glass Buttes, southeast Oregon (Berri, Dulcy A. 1982)
- Hydrothermal alteration mineralogy in Newberry 2 drill core, Newberry Volcano, Oregon (Bargar, Keith E. 1983)
- Mineralogy, texture and chemistry of the serpentinites and serpentinized ultramafic rocks of the Canyon Mountain Complex, John Day, Oregon (Twyman, Terry Rayno. 1979)
- Secondary mineralization in the Mt. Hood area, Oregon (Beeson, M. H. 1980)
- The geology of josephinite in the Josephine Peridotite, southwest Oregon (Leavell, Daniel Nelson. 1983)
- Meteorites:** Rocks from northwestern skies (Lange, Erwin F. 1967)
- Salem Meteorite (Pugh, Richard N. 1984)
- Sodium and manganese homogeneity in chondritic meteorites (Osborn, T. W. 1970)
- Volcanism:** A geologic study of Three Fingers Rock, Owyhee region, Malheur County, Oregon (Imada, Briam T. 1980)
- Cenozoic plate motions and the volcano-tectonic evolution of western Oregon and Washington (Wells, R. E. 1984)
- Columbia River Basalt Group; vent systems in Oregon (Robinson, P. T. 1981)
- Geology and petrology of the Yamsay Mountain Complex, South-central Oregon; a study of bimodal volcanism (Hering, Carl William. 1981)
- Peralkaline ash flow tuffs and calderas of the McDermitt volcanic field, southeast Oregon and north-central Nevada (Rytuba, James J. 1984)
- Punctuated volcanism in Oregon's Coast Range (McElwee, Kristine. 1984)
- The Cascade volcanoes; comparison of geologic and historic records (Kiver, Eugene P. 1982)
- The mineralogy and petrology of compositionally zoned ash flow tuffs, and related silicic volcanic rocks, from the McDermitt Caldera complex, Nevada-Oregon (Conrad, Walter K. 1984)
- The nature of volcanism in the Cascades of Oregon (McDonough, William F. 1980)
- Welded tuffs deformed into megareheomorphic folds during collapse of the McDermitt Caldera, Nevada-Oregon (Hargrove, Howard R. 1984)
- Volcanology:** Aerial infrared mapping of thermal activity at Cascade Range volcanoes (Friedman, Jules D. 1981)
- Drake Peak; a structurally complex rhyolite center in southeastern Oregon (Wells, R. E. 1980)
- Geology and petrology of South Sister Volcano, High Cascade Range, Oregon (Clark, James Gregory. 1983)
- Map showing distribution, composition, and age of late Cenozoic volcanoes and volcanic rocks of the Cascade Range and vicinity, northwestern United States (Luedke, R. G. 1983)
- Newberry Volcano, Oregon (MacLeod, Norman S. 1981)
- Roadlog for Newberry Volcano, Oregon (MacLeod, Norman S. 1981)
- Segmentation of the Cascade volcanic chain (Hughes, J. M. 1980)
- The climatic eruption of Mount Mazama, Oregon (Bacon, C. R. 1980)
- The pulse of the Cascade volcanoes (Hammond, Paul E. 1974)
- Why do volcanoes erupt? (Allen, John Eliot. 1981)
- Phanerozoic see also Cretaceous; Stratigraphy; see also under Stratigraphy under Pacific Coast**
- Phanerozoic—Tectonophysics**
- Crust:** Phanerozoic addition rates to the continental crust and crustal growth (Reymer, Arthur. 1984)
- Phase equilibria—Alloys**
- P-T conditions:** Josephinite; crystal structures and phase relations of the metals (Bassett, William A. 1980)
- Phase equilibria—Chain silicates, amphibole group**
- Experimental studies:** The stability of amphibole in andesite and basalt at high pressures (Allen, J. C. 1983)
- Phase equilibria—Igneous rocks**
- Gabbros:** Origin of comb layering in the Willow Lake Intrusion, N.E. Oregon (Carpenter, Paul K. 1983)
- Phase equilibria—Magmas**
- Interpretation:** Divergent magmas at Crater Lake, Oregon; products of fractional crystallization and vertical zoning in a shallow, water-undersaturated chamber (Ritchey, J. L. 1980)
- Geochemistry of post-glacial dacites from Mt. Hood, Oregon (White, C. M. 1980)
- Phase equilibria—Mineral assemblages**
- P-T conditions:** Significance of metaroddingite in the Wrangle Gap-Red Mountain ultramafic complex, Klamath Mountains, Oregon (Rice, J. M. 1980)
- Phase equilibria—Native elements and alloys**
- Interpretation:** Widmanstaetten patterns in josephinite, a metal-bearing terrestrial rock (Bird, J. M. 1979)
- Phase equilibria—Ultramafics**
- P-T conditions:** Application of pyroxene and olivine-spinel geothermometers to spinel peridotites in southwestern Oregon (Henry, D. J. 1980)
- Phosphorus—Geochemistry**
- Lava:** Depletion of incompatible trace elements in successively erupted groups of lavas at Battle Ax Mountain, Cascade Range, Oregon (White, Craig M. 1983)
- Surface water:** Algal conditions and the potential for future algal problems in the Willamette River, Oregon (Rickert, David A. 1977)
- Pisces—Chondrichthyes**
- Cenozoic:** Late Cretaceous and Cenozoic Squalomorphii of the Northeast Pacific Ocean (Welton, B. J. 1979)
- Cretaceous:** Late Cretaceous and Cenozoic Squalomorphii of the Northeast Pacific Ocean (Welton, B. J. 1979)
- Pisces—Faunal studies**
- Cretaceous:** Paleontology and paleoecology of the Lance Formation (Maastrichtian), east flank of Rock Springs Uplift, Sweetwater County, Wyoming (Breithaupt, Brent H. 1982)
- Pisces—Osteichthyes**
- Holocene:** Prediction of the effect of a dam on adjacent gravel spawning grounds, Rogue River, Oregon (Parker, G. 1979)
- Neogene:** Notes on the origin of Biggs jasper (Shaub, B. M. 1978)
- Placers—Gold ores**
- Global:** Gold and bedrock (Bishop, Raymond. 1980)
- Regional:** Gold in Oregon (Fischer, Carl. 1982)
- Surface mined land reclamation in Oregon, 1980 (Lawson, Paul F. 1981)
- Western U.S.:** Laterization as a possible contributor to gold placers (Evans, David Le Count. 1981)
- Placers—Heavy mineral deposits**
- Regional:** Processes of selective grain transport and the formation of placers on beaches (Komar, Paul D. 1984)
- Plantae see also Algae; Angiosperms; Gymnosperms; Ichnofossils; Palynomorphs; Protista; Pteridophytes**
- Plantae—Biostratigraphy**
- Cenozoic:** A chronologic framework for Cenozoic megafossil floras of northwestern North America and its relation to marine geochronology (Wolfe, Jack A. 1981)

- Eocene:** Geology of the south-central margin of the Tillamook Highlands; southwest quarter of the Enright quadrangle, Tillamook County, Oregon (Cameron, Kenneth Allan. 1980)
- Miocene:** Vegetation change in the Miocene Succor Creek flora of Oregon and Idaho; a case study in paleosuccession (Taggart, Ralph E. 1980)
- Tertiary:** The "Pilot Rock Flora" is not equivalent to the Eocene Clarno Flora (Fisk, Lanny H. 1978)
- Plantae—Floral studies**
- Eocene:** Fossil plants of the Eocene Clarno nut beds (Manchester, Steven R. 1981)
- Tertiary:** Seven fossil floras in the rain shadow of the Cascade Mountains, Oregon (Ashwill, Melvin. 1983)
- Plantae—Occurrence**
- Fossil wood:** Exploration and danger on our route to the Lava Cast Forest of Oregon (Catlin, Mary French. 1982)
- Plantae—Paleoecology**
- Oligocene:** Oregon western Cascades Oligocene biofacies (Orr, William N. 1983)
- Paleoclimatology:** Leaf physiognomy and climate; a multivariate analysis (Davis, J. M. 1980)
- Tertiary:** Paleoclimatic significance of the Oligocene and Neogene floras of the Northwestern United States (Wolfe, Jack A. 1981)
- Plate tectonics see also under** Tectonophysics; **see also under** Tectonophysics under Basin and Range Province; Columbia Plateau; Great Basin; Pacific Coast; Pacific Ocean; Pacific region
- Plate tectonics—Age**
- Tertiary:** A plate-tectonic model for Late Cenozoic uplift and crustal spreading in the western United States (Eaton, Gordon P. 1978)
- Plate tectonics—Evolution**
- Crust:** Phanerozoic addition rates to the continental crust and crustal growth (Reymer, Arthur. 1984)
- Plate tectonics—Island arcs**
- Heat flow:** Understanding thermal energy and dynamic processes in subduction-related volcanic arcs; Proposed studies in the Cascades (Priest, George R. 1984)
- Plantae—Abundance**
- Rocks:** Geochemical analyses for platinum group elements in rock samples from the Kalmiopsis Wilderness, southwestern Oregon (Carlson, R. R. 1982)
- Platinum—Geochemistry**
- Chromitite:** Platinum-group minerals in alpine chromitites from southwestern Oregon (Stockman, Harlan W. 1984)
- Pleistocene see also under** Geochronology; Stratigraphy; **see also under** Stratigraphy under Basin and Range Province; Great Basin; Great Plains; Pacific Coast
- Pliocene see also under** Geochronology; Stratigraphy
- Plutonium—Geochemistry**
- Surface water:** Crater Lake revisited; concentration changes in water column radionuclides, 1967 to 1981 (Volchok, Herbert L. 1983)
- Plutonium—Isotopes**
- Pu-239:** Plutonium and americium export to the North-East Pacific Ocean by Columbia River runoff (Beasley, T. M. 1981)
- Ratios:** Plutonium, ^{241}Am and ^{137}Cs ratios, inventories and vertical profiles in Washington and Oregon continental shelf sediments (Beasley, T. M. 1982)
- Plutons see under** Intrusions
- Pollution see also under** Environmental geology; Waste disposal; **see also under** Environmental geology under Automatic data processing; Pacific Coast; Pacific Ocean
- Polonium—Isotopes**
- Po-210:** Estimating the ages of mussels by chemical and physical methods (Griffin, John J. 1980)
- Lead 210 and polonium 210 in Mount St. Helens ash (Nevissi, A. E. 1984)
- Polymetallic ores see also** Gold; Silver; **see also under** Economic geology under Pacific Coast
- Porifera—Hyalospongiae**
- Tertiary:** The Tertiary sponges *Aphrocallistes* and *Eurete* from western Washington and Oregon (Rigby, J. Keith. 1983)
- Potassium—Abundance**
- Water:** Factors contributing to the maintenance of oligotrophy in an alpine glacial moraine lake (Wallowa Lake) in northeast Oregon (Larson, Douglas W. 1981)
- Potassium—Geochemistry**
- Ground water:** Chemistry of ground waters associated with the Grants Pass Batholith, Klamath Mountains, OR (Mack, Gregory S. 1982)
- Norite:** Origin of comb layering in the Willow Lake Intrusion, N.E. Oregon (Carpenter, Paul K. 1983)
- Plutonic rocks:** Pre-Tertiary plutonic rocks in the Snake River Canyon, Oregon/Idaho; intrusive roots of a Permo-Triassic arc complex (Walker, Nicholas. 1982)
- Soils:** The influence of forest leachates on erosion of granitic terrane (Durgin, Philip Bassett. 1983)
- Potassium—Isotopes**
- K/Ar:** Sedimentary response to Eocene tectonic rotation in western Oregon (Heller, Paul Lewis. 1983)
- Precambrian see also under** Stratigraphy
- Protista—Silicoflagellata**
- Miocene:** Biostratigraphy of the marine Neogene sequence at Cape Blanco, southwestern Oregon (Addicott, W. O. 1983)
- Protozoa see** Protista
- Pteridophytes—Filicopsida**
- Eocene:** A silicified tree fern from the Eocene of Oregon (Barrington, David S. 1973)
- *Cibotium oregonense*, an Eocene tree-fern stem and petioles with internal structure (Barrington, David S. 1983)
- Tertiary:** Ornamentation of polypodiaceous spores from the Tertiary of North America (El-sik, W. C. 1978)
- Pteridophytes—Sphenopsida**
- Eocene:** *Equisetum clarnoi*, a new species based on petrifications from the Eocene of Oregon (Brown, John Thomas. 1975)
- Petrified cryptogamic plants from the Clarno cherts of Oregon (Dennis, Robert L. 1974)
- Holocene:** Mercury content of *Equisetum* plants around Mount St. Helens one year after the major eruption (Siegel, B. Z. 1982)
- Pumice see also under** Pyroclastics under Igneous rocks
- Quartz see under** Geochemistry under Aluminum; **see under** Geologic thermometry under Fluid inclusions
- Quaternary see also under** Geochronology; Stratigraphy; **see also under** Geochronology under Great Basin; Pacific Coast; **see also under** Stratigraphy under Pacific Coast; Pacific Ocean
- Radioactive dating see** Absolute age
- Radiolaria—Nassellina**
- Jurassic:** Bizarre Nasselliina (Radiolaria) from the Middle and Upper Jurassic of North America (Pessagno, Emile A., Jr. 1982)
- Lower and Middle Jurassic Radiolaria (multicyrtid Nasselliina) from California, east-central Oregon and the Queen Charlotte Islands, B.C. (Pessagno, Emile A., Jr. 1982)
- Radiolaria—Spumellina**
- Triassic:** Upper Triassic and Jurassic Pantanelliinae from California, Oregon and British Columbia (Pessagno, Emile A., Jr. 1980)
- Upper Triassic Capnuchosphaeridae and Capnodocinae (Radiolaria) from east-central Oregon (Blome, Charles D. 1983)
- Radiolaria—Taxonomy**
- Triassic:** Upper Triassic Radiolaria from eastern Oregon and British Columbia (Blome, Charles David. 1981)
- Radiolarians—Biogeography**
- Phanerozoic:** Comparison of Permian and lower Mesozoic radiolarian chert in Western accreted terranes (Murchey, Benita. 1983)
- Radiolarians—Biostratigraphy**
- Cenozoic:** Micropaleontological study of five wells, western Willamette Valley, Oregon (McKeel, Daniel R. 1980)
- Cretaceous:** A paleogeographic reinterpretation of some Middle Cretaceous units, north-central Oregon; evidence for a submarine turbidite system (Kleinhaus, Lewis C. 1984)
- Paleozoic:** The Elkhorn Ridge Argillite; a deformed accretionary prism in northeastern Oregon (Coward, R. I. 1982)
- Phanerozoic:** Paleogeographic implications of radiolarian-rich rocks from eastern Oregon (Blome, Charles D. 1983)
- Triassic:** Upper Triassic and Jurassic Pantanelliinae from California, Oregon and British Columbia (Pessagno, Emile A., Jr. 1980)
- Upper Triassic Radiolaria and radiolarian zonation from western North America (Blome, Charles D. 1984)
- Upper Triassic Radiolaria from eastern Oregon and British Columbia (Blome, Charles David. 1981)
- Upper Triassic Radiolaria from the Fields Creek Formation, John Day Inlier, east-central Oregon (Cheng, Kuei-Yu Yeh. 1982)
- Radiolarians—Paleoecology**
- Quaternary:** Direct comparison of marine and continental climate records (Pisias, N. G. 1981)
- Rare earths see also** Neodymium; Samarium; Scandium
- Rare earths—Abundance**
- Basalts:** Stratigraphy and petrogenesis of the Grande Ronde Basalt from the deep canyon country of Washington, Oregon, and Idaho (Reidel, S. P. 1983)
- Intrusive rocks:** Petrology and geochemistry of the North Fork Stock, Blue Mountains, northeastern Oregon (Matty, D. J. 1980)
- Metavolcanic rocks:** Geochemical variations within an ancient island arc, southwestern Oregon (Johnson, M. G. 1980)
- Ophiolite:** The Sparta ophiolite complex, northeast Oregon; a plutonic equivalent to low K_2O island-arc volcanism (PHELPS, D. 1980)
- Volcanic rocks:** Geology and geochemistry of volcanic rocks in the Detroit area, Western Cascade Range, Oregon (White, Craig McKibben. 1980)
- Rare earths—Geochemistry**
- Basalts:** Late Miocene and early Pliocene basaltic rocks and their implications for crustal structure, northeastern California and South-central Oregon (McKee, Edwin H. 1983)
- Major and trace element studies of central High Cascades platform basalts (Hughes, Scott S. 1981)
- Igneous rocks:** Petrology of gabbro and peridotite of the Canyon Mountain Complex, Northeast Oregon (Mullen, Ellen D. 1983)
- Petrology of mafic rocks from the Canyon Mountain ophiolite complex (Leeman, William P. 1983)
- The nature and evolution of the eastern margin of the Seven Devils volcanic arc; a piece of Wrangellia? (Sawewitz, Daniel. 1982)
- Lava:** Depletion of incompatible trace elements in successively erupted groups of lavas at Battle Ax Mountain, Cascade Range, Oregon (White, Craig M. 1983)
- Tholeiitic lavas from the basal portions of the western Cascade sequences in Oregon (White, Craig M. 1980)
- Magma:** Petrology and regional setting of peridotite and gabbro

Rare earths

- of the Canyon Mountain Complex, northeast Oregon (Mullen, Ellen D. 1983)
- The mineralogy and petrology of compositionally zoned ash flow tuffs, and related silicic volcanic rocks, from the McDermitt Caldera complex, Nevada-Oregon (Conrad, Walter K. 1984)
- Metavolcanic rocks:** Seven Devils terrane; is it really a piece of Wrangellia? (Sarewitz, Daniel. 1983)
- Plutonic rocks:** Pre-Tertiary plutonic rocks in the Snake River Canyon, Oregon/Idaho; intrusive roots of a Permo-Triassic arc complex (Walker, Nicholas. 1982)
- Rutile:** Trace elements in veins of the Bohemia mining district, Oregon (Istas, Laurence Stewart. 1983)
- Sedimentary rocks:** Stratigraphic relationships of the Tillamook Volcanics and the Cowlitz Formation in the upper Nehalem River-Wolf Creek area, northwestern Oregon (Jackson, Michael Keith. 1983)
- Tests:** Rare-earth elements in conodont apatite as a measure of redox conditions in ancient seas (Wright-Clark, Judith. 1981)
- Trace elements:** Petrology, geochemistry and origin of the Sparta quartz diorite-trondhjemite complex, northeastern Oregon (Phelps, D. 1979)
- Volcanic rocks:** Petrochemical evolution of High Cascade volcanic rocks in the Three Sisters region, Oregon (Hughes, Scott Stevens. 1983)
- Reclamation** see also under Environmental geology; Land use
- regional geology** see areal geology under the appropriate area term
- Remote sensing** see also Geophysical methods; Geophysical surveys; see also under Geophysical surveys under Automatic data processing; Columbia Plateau; Mineral exploration; Pacific Coast; Pacific Ocean
- Remote sensing—Applications**
- Archaeology:** Remote sensing; basic manual supplement; Oregon (Aikens, C. Melvin. 1980)
- Land use:** Identification of irrigation practices using photographic and optical-mechanical scanning remote sensing techniques (Naim, Shamim. 1981)
- Remote sensing—Imagery**
- Landsat:** Remote sensing of snow and ice (Mayer, M. 1982)
- Remote sensing—Interpretation**
- Spectral analysis:** Visible and near-infrared spectra of rocks from a chromite-rich area in Oregon (Hunt, G. R. 1979)
- Reptilia—Faunal studies**
- Cretaceous:** Paleontology and paleoecology of the Lance Formation (Maastichtian), east flank of Rock Springs Uplift, Sweetwater County, Wyoming (Breithaupt, Brent H. 1982)
- Reservoirs** see also under Engineering geology

- Ripple marks** see under Bedding plane irregularities under Sedimentary structures
- Rock mechanics** see also Soil mechanics
- Rock mechanics—Case studies**
- Dams:** Rock engineering at Brownlee Dam (Mirafuente, Nestor T. 1979)
- Rock mechanics—Deformation**
- Testing:** Hanford Atomic Reservation and Columbia River Gorge (Farooqui, Saleem. 1981)
- Rock mechanics—Materials, properties**
- Porosity:** The sorption behavior of selected radionuclides on Columbia River basalts (Salter, P. F. 1981)
- Rubidium—Geochemistry**
- Plutonic rocks:** Pre-Tertiary plutonic rocks in the Snake River Canyon, Oregon/Idaho; intrusive roots of a Permo-Triassic arc complex (Walker, Nicholas. 1982)
- Rhyolites:** Silicic volcanism and continental extension; implications for the nature of the crust in the Western U.S. (Wilson, Robert T. 1983)
- Samarium—Isotopes**
- Sm/Nd:** Sedimentary response to Eocene tectonic rotation in western Oregon (Heller, Paul Lewis. 1983)
- Sandstone** see also under Clastic rocks under Sedimentary rocks
- Scandium—Geochemistry**
- Basalts:** Major and trace element studies of central High Cascades platform basalts (Hughes, Scott S. 1981)
- Sea-floor spreading** see also Continental drift; Plate tectonics; see also under Tectonophysics under Pacific Coast; Pacific Ocean
- Sea water—Geochemistry**
- Chromium:** Chromium species in the Columbia River and estuary (Cranston, R. E. 1980)
- Sedimentary petrology**
- Clay mineralogy:** Alteration of andesite in wet, unstable soils of Oregon's western Cascades (Glasman, J. R. 1982)
- Clay minerals of Lake Abert, an alkaline, saline lake (Jones, Blair F. 1983)
- Continental shelf:** Distribution and movement of radioactive Columbia River sediment on the Continental Shelf of Washington and Oregon (Gross, M. Grant. 1968)
- Diagenesis:** Chemistry of zeolites and zeolitic tuffs from a Pliocene lacustrine deposit near Durkee, Baker County, Oregon (Sheppard, R. A. 1980)
- Progressive stages of diagenesis in early-middle Eocene fore-arc delta, shelf, slope, and basin sandstones, southern Coast Range, Oregon (Chan, Marjorie A. 1982)
- Sedimentary rocks:** Appendix D; Petrography of thin sections from Pan American Well OCS P-0112 (Van Atta, Robert O. 1980)
- Characteristics of coarse-grained sequences deposited in

- nearshore, wave-dominated environments; examples from the Miocene of southwest Oregon (Leithold, Elana L. 1984)
- Deposition and penecontemporaneous deformation of sediments on a faulted submarine slope, Hunters Cove Formation (Campanian-Maestrichtian), southwest Oregon (Bourgeois, Joanne. 1982)
- Diagenetic origin of graywacke matrix minerals (Whetten, John T. 1970)
- Eocene wave-dominated deltaic sedimentation, Oregon Coast Range (Chan, Marjorie A. 1984)
- Isotopic provenance of sandstones from the displaced Tyee Formation, Oregon Coast Range (Heller, Paul. 1984)
- Lithic wackes of early-middle Eocene Lookingglass Formation, southwest Oregon (Ahmad, Raisuddin. 1982)
- Petrographic analysis of sandstones, Roseburg, Flournoy, and Coaledo formations, southwestern Oregon (Van Atta, Robert O. 1980)
- Porosity, permeability, and diagenesis of surface samples of sandstone from the Hornbrook Formation (Kreighin, C. W. 1984)
- Provenance of Eocene graywackes of the Flournoy Formation near Agness, Oregon; a geochemical approach (Ahmad, Raisuddin. 1982)
- Sedimentary history of the floor of Crater Lake, Oregon; a restricted basin with non-channelized turbidites (Nelson, C. Hans. 1980)
- Sedimentary rocks of the central Oregon continental shelf (Kulm, LaVerne D. 1980)
- Sedimentology of the sand of Floras Lake (Miocene), transgressive, high-energy shelf deposition, SW Oregon (Leithold, Elana L. 1983)
- Sedimentology of the sandstone of Floras Lake (Miocene); transgressive, high-energy shelf deposition on a tectonically active margin, SW Oregon (Leithold, Elana L. 1983)
- Sedimentology of the Upper Cretaceous Hornbrook Fm., southwestern Oregon and north-central California (Nilsen, Tor H. 1983)
- Wave-worked conglomerates; depositional processes and criteria for recognition (Bourgeois, Joanne. 1984)
- Western Cordilleran flysch sedimentation, southwestern British Columbia, Canada, and northwestern Washington and central Oregon, U.S.A. (Danner, W. R. 1971)
- Sedimentary structures:** Columbia River sand waves (Whetten, John T. 1967)
- Evaluation of sand waves in an estuary (Baliga, B. R. 1981)
- Hummocks; do they grow? (Bourgeois, Joanne. 1983)

Sedimentary petrology

- The origin of olistostromes in the Roseburg Formation in southwestern Oregon (Baldwin, Ewart M. 1984)
- Theories on the origin of Succor Creek thunder eggs (Kuhlman, Lisa. 1982)
- Sedimentation:** A model of two-phase bedload transport in an Oregon Coast Range stream (Jackson, W. L. 1982)
- A transgressive shelf sequence exhibiting hummocky stratification; the Cape Sebastian Sandstone (Upper Cretaceous), southwestern Oregon (Bourgeois, Joanne. 1980)
- An evaluation of suspended sediment and turbidity in Cow Creek, Oregon (Curtiss, D. A. 1983)
- Cyclic deposits and hummocky cross-stratification of probable storm origin in Upper Cretaceous rocks of the Cape Sebastian area, southwestern Oregon (Hunter, Ralph E. 1982)
- Deep-sea fan deposition in an Eocene forearc basin, western Oregon (Chan, Marjorie A. 1980)
- Delta-fed deep-sea ramp deposits in Eocene basins along the U.S. Pacific margin (Heller, Paul L. 1983)
- Depositional environments of the "Butte Creek Beds," central western Cascades, Oregon (Miller, Paul R. 1983)
- Early Eocene depositional system along the southern Oregon Coast Range; Klamath Mountain borderland (Ryberg, Paul T. 1983)
- Gravel bedload transport processes (Klingeman, P. C. 1982)
- Heavy-mineral variability in beach and dune sands in the vicinity of the mouth of the Columbia River (Luepke, Gretchen. 1982)
- Lithofacies and depositional environments of Coaledo Formation, Coos County, Oregon (Ryberg, Paul T. 1981)
- Opaque minerals as aids in distinguishing between source and sorting effects on beach-sand mineralogy in southwestern Oregon (Luepke, G. 1980)
- Provenance, distribution and alteration of volcanic sediments in a saline alkaline lake (Deike, Ruth G. 1980)
- Results of heavy-mineral analyses of surface sediments in Tillamook Bay, Oregon (Niem, W. A. 1980)
- Sand transport through channels across an Eocene shelf and slope in southwestern Oregon, U.S.A. (Dott, R. H., Jr. 1979)
- Sediment transport in Oregon Coast Range streams (Bescha, R. L. 1980)
- Sedimentation, tectonics and sea-level change as reflected in wave-dominated shelf sequences, Oregon and California (Bourgeois, Joanne. 1983)
- Shelf and deep-sea sedimentation in Eocene forearc basin, western Oregon; fan or non-fan? (Chan, M. A. 1983)

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- The environment of deposition of the late Eocene Bastendorff Formation of southwestern Oregon (Rooth, G. H. 1980)
- ^{210}Pb -determined sedimentation rates in upper Klamath Lake and Lake Euwana, Oregon (Martin, E. Ann. 1980)
- Sediments*: Base surge deposits in the western Cascades, Oregon (McDonough, W. F. 1980)
- 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)
 - Limestone units within the Triassic Wild Sheep Creek Formation of the Snake River canyon (Grant, Philip Robert. 1980)
 - Mid-Tertiary carbonates, western Oregon (Orr, William N. 1982)
 - Subsurface dedolomitization of the Madison Limestone, Wyoming (Budai, Joyce M. 1981)
 - Paleoenvironment*: Rare-earth elements in conodont apatite as a measure of redox conditions in ancient seas (Wright-Clark, Judith. 1981)
- Sedimentary rocks—Chemically precipitated rocks**
 - Laterites*: Characterization of lateritic nickel ores by electron-optical and X-ray techniques (Chandra, D. 1983)
 - Phosphate rocks*: Distribution and depositional history of Neogene phosphorites along Pacific Coast of North America (Ingle, James C. 1982)
 - Phosphorite*: Phosphogenic provinces of the Circum-Pacific region (Sheldon, R. P. 1979)
- Sedimentary rocks—Clastic rocks**
 - Arenite*: Progressive stages of diagenesis in early-middle Eocene fore-arc delta, shelf, and basin sandstones, southern Coast Range, Oregon (Chan, Marjorie A. 1982)
 - Classification*: Structural styles in Mesozoic melanges along the Pacific margin of North America and their relation to subduction tectonics (Cowan, Darrel S. 1981)
 - Conglomerate*: Appendix D; Petrography of thin sections from Pan American Well OCS P-0112 (Van Atta, Robert O. 1980)
 - Conglomerate clast composition of the Upper Cretaceous Hornbrook Formation, Oregon and California (Barats, Greg M. 1984)
 - Depositional models for conglomerates of the Bushnell Rock Member, Lookingglass Formation, southwestern Oregon (Ahmad, Raisuddin. 1981)
 - Stratigraphy and sedimentology of the Hornbrook Formation (Nilsen, T. H. 1982)
 - Wave-worked conglomerates; depositional processes and criteria for recognition (Bourgeois, Joanne. 1984)

- Deposition*: Deep-sea fan deposition in an Eocene forearc basin, western Oregon (Chan, Marjorie A. 1980)
- Environmental analysis*: Deposition and penecontemporaneous deformation of sediments on a faulted submarine slope, Hunters Cove Formation (Campanian-Maestrichtian), southwest Oregon (Bourgeois, Joanne. 1982)
- Fanglomerate*: Petrography of the Rattlesnake Formation at the type area, central Oregon (Enlows, Harold E. 1976)
- Flysch*: The Blue Mountains of eastern Oregon; their position in the western American Cordillera (Roure, F. 1981)
- Trench fill to forearc transition in the rotated Eocene flysch basin of the southern Oregon Coast Range (Heller, Paul L. 1982)
- Western Cordilleran flysch sedimentation, southwestern British Columbia, Canada, and northwestern Washington and central Oregon, U.S.A. (Danner, W. R. 1971)
- Graywacke*: Diagenetic origin of graywacke matrix minerals (Whetten, John T. 1970)
- Provenance of Eocene graywackes of the Flournoy Formation near Agness, Oregon; a geochemical approach (Peterman, Zell E. 1981)
- Tectonic control of Eocene arkosic sediment deposition, Oregon and Washington (Armentrout, John M. 1983)
- Lithofacies*: Age, facies relations, and a river mouth/shelf/submarine channel depositional model for the Clifton Formation, northwestern Oregon (Murphy, T. 1980)
- Nonmarine lithofacies included in Scappoose Formation, northwestern Oregon (Van Atta, Robert O. 1982)
- Sedimentary record of subduction to forearc transition in the rotated Eocene basin of western Oregon (Heller, Paul L. 1983)
- Sedimentology of the Upper Cretaceous Hornbrook Fm., southwestern Oregon and north-central California (Nilsen, Tor H. 1983)
- Stratigraphy and sedimentology of the Payne Cliffs Formation, southwestern Oregon (McKnight, Brian K. 1984)
- Lithostratigraphy*: Dalles Group; Neogene formations overlying the Columbia River Basalt group in North-central Oregon (Farooqui, Saleem M. 1981)
- Geochemical evidence for changing provenance of Tertiary formations in northwestern Oregon (Kadri, Moinoddin M. 1983)
- Stratigraphy, sedimentology, and tectonic framework of the Upper Cretaceous Hornbrook Formation, Oregon and California (Nilsen, Tor H. 1984)
- Tectonics and sedimentation of the Upper Cretaceous Hornbrook Formation, Oregon and California (Nilsen, Tor H. 1984)

- Mudstone*: Clay petrology of mudstone, Leg 18, Deep Sea Drilling Project (Hayes, John B. 1973)
- Provenance*: Isotopic provenance of sandstones from the displaced Tyee Formation, Oregon Coast Range (Heller, Paul. 1984)
- Pyroclastics*: The Cenozoic geology and alteration at Neals-Bully Creek, Oregon (Lenney, Thomas William. 1980)
- Sandstone*: A transgressive shelf sequence exhibiting hummocky stratification; the Cape Sebastian Sandstone (Upper Cretaceous), southwestern Oregon (Bourgeois, Joanne. 1980)
- Characteristics of coarse-grained sequences deposited in nearshore, wave-dominated environments; examples from the Miocene of southwest Oregon (Leithold, Elana L. 1984)
- Comparison of sedimentology and diagenesis of Eocene rocks, southwest Oregon (Chan, Marjorie Ann. 1982)
- Cyclic deposits and hummocky cross-stratification of probable storm origin in Upper Cretaceous rocks of the Cape Sebastian area, southwestern Oregon (Hunter, Ralph E. 1982)
- Diagenetic controls of porosity and permeability in the Nugget Sandstone in a Western Overthrust Belt oil reservoir (Aucermann, Leslie J. 1983)
- Lithic wackes of early-middle Eocene Lookingglass Formation, southwest Oregon (Ahmad, Raisuddin. 1982)
- Petrographic analysis of sandstones, Roseburg, Flournoy, and Coaledo formations, southwestern Oregon (Van Atta, Robert O. 1980)
- Porosity, permeability, and diagenesis of surface samples of sandstone from the Hornbrook Formation (Kreighin, C. W. 1984)
- Sandstone petrography of the Upper Cretaceous Hornbrook Formation, Oregon and California (Golia, Ralph T. 1984)
- Sedimentology of the sand of Floras Lake (Miocene), transgressive, high-energy shelf deposition, SW Oregon (Leithold, Elana L. 1983)
- Sedimentology of the sandstone of Floras Lake (Miocene); transgressive, high-energy shelf deposition on a tectonically active margin, SW Oregon (Leithold, Elana L. 1983)
- Stratigraphy and sedimentology of the Osburger Gulch Sandstone Member of the Upper Cretaceous Hornbrook Formation, northern California and southern Oregon (Gaona, M. T. 1984)
- Source rocks*: Petroleum source rock evaluations of outcrop samples from Oregon and northern California (Law, B. E. 1984)
- The petroleum source-rock potential of the Upper Cretaceous Hornbrook Formation, north-central California and southwestern Oregon (Law, B. E. 1984)

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- Turbidite*: A paleogeographic reinterpretation of some Middle Cretaceous units, north-central Oregon; evidence for a submarine turbidite system (Kleinhaus, Lewis C. 1984)
- Sand transport through channels across an Eocene shelf and slope in southwestern Oregon, U.S.A. (Dott, R. H., Jr. 1979)
- Sedimentary history of the floor of Crater Lake, Oregon; a restricted basin with non-channelized turbidites (Nelson, C. Hans. 1980)
- Volcanic breccia*: Geology, alteration, and mineralization in the pyroclastic and sedimentary deposits of the Bretz-Aurora Basin, McDermitt Caldera, Nevada-Oregon (Ronkos, Charles Joseph. 1981)
- Volcaniclastic*: A reconnaissance survey of mineralogy and trace element content of some upper Tertiary and Quaternary water-laid tuffs and tuffaceous sediments in the Basin-and-Range Province, western United States (Lindsay, D. A. 1974)
- Late early Eocene rhyolitic ash turbidites in the central Oregon Coast Range (Smith, Gary. 1984)
- Neogene paleogeography of western Snake River plain, Idaho and Oregon (Porter, M. L. 1984)
- Sedimentary rocks—Composition**
 - Chemical composition*: A geochemical study of the Rhododendron and Dalles Formations in the area of Mount Hood, Oregon (Gannett, Marshall W. 1982)
- Sedimentary rocks—Environmental analysis**
 - Deep-sea environment*: Modern submarine fans and debris aprons; an update of the first half century (Nelson, C. Hans. 1983)
 - Shelf environment*: Shelf and deep-sea sedimentation in Eocene forearc basin, western Oregon; fan or non-fan? (Chan, M. A. 1983)
- Sedimentary rocks—Geochemistry**
 - Trace elements*: Mineralogic and trace element variation in the carbonate rocks (Middle and Upper Ordovician) associated with faults in central Kentucky (George, John Samuel. 1982)
- Sedimentary rocks—Lithofacies**
 - Environmental analysis*: Lithofacies and depositional environments of Coaledo Formation, Coos County, Oregon (Ryberg, Paul T. 1981)
 - Sedimentation, stratigraphy and facies variation of the lower to middle Miocene Astoria Formation in Oregon (Cooper, David Michael. 1980)
 - Interpretation*: Lithofacies and depositional environments of Coaledo Formation, Coos County, Oregon (Ryberg, Paul T. 1981)
- Sedimentary rocks—Lithostratigraphy**
 - Cretaceous*: Geologic map of the outcrop area of the Hornbrook Formation, Oregon and California (Nilsen, T. H. 1983)

- Sedimentology and tectonics of Upper Cretaceous rocks, southwest Oregon (Bourgeois, Joanne. 1980)
- Eocene*: Eocene wave-dominated deltaic sedimentation, Oregon Coast Range (Chan, Marjorie A. 1984)
- Mesozoic*: Structural geology of the southeast quarter of the Dutchman Butte quadrangle, Oregon (Black, Gerald Lee. 1979)
- Mississippian*: Pacific Northwest region (Yates, R. G. 1979)
- Pennsylvanian*: Pacific Northwest region (Irwin, William P. 1975)
- Tertiary*: Mid Tertiary stratigraphy of the Oregon western Cascades (Orr, William N. 1982)
- Sedimentary rocks—Properties**
 - Textures*: Sedimentary rocks of the central Oregon continental shelf (Kulm, LaVerne D. 1980)
- Sedimentary rocks—Provenance**
 - Indicators*: Stratigraphic relationships of the Tillamook Volcanics and the Cowlitz Formation in the upper Nehalem River-Wolf Creek area, northwestern Oregon (Jackson, Michael Keith. 1983)
 - Structure and influence of the Tillamook uplift on the stratigraphy of the Mist area, Oregon (Kadri, Moïnoeddin Murtuzamiya. 1982)
 - Lithofacies*: Sedimentary response to Eocene tectonic rotation in western Oregon (Heller, Paul Lewis. 1983)
 - Paleocurrents*: Stratigraphy and sedimentary petrology of the northwest quarter of the Dutchman Butte quadrangle, southwest Oregon (Koler, Thomas Edward. 1979)
 - Source terranes*: Stratigraphy, structure, and petrology of the Lookingglass and Roseburg Formations, Agness-Illahe area, southwestern Oregon (Ahmad, Raisuddin. 1981)
- Sedimentary structures** *see also* Sedimentary rocks; Sediments
- Sedimentary structures—Bedding plane irregularities**
 - Dunes*: Columbia River sand waves (Whetten, John T. 1967)
 - Ripple marks*: A field investigation of the relationship between oscillation ripple spacing and the near-bottom water orbital motions (Miller, M. C. 1980)
 - A time-dependent model of sediment transport and strata formation (Kachel, Nancy B. 1981)
 - Sand waves*: Evaluation of sand waves in an estuary (Baliga, B. R. 1981)
- Sedimentary structures—Biogenic structures**
 - Bioturbation*: Stratigraphy and sedimentology of the Osburger Gulch Sandstone Member of the Upper Cretaceous Hornbrook Formation, northern California and southern Oregon (Gaona, M. T. 1984)
 - Stromatolites*: Paleozoic carbonate buildups in the Basin and Range Province (Suek, David H. 1979)
- Sedimentary structures—**
- Environmental analysis**
 - Coastal environment*: Depositional environments of some Pleistocene coastal terrace deposits, southwestern Oregon; case history of a progradational beach and dune sequence (Hunter, Ralph E. 1980)
 - Deltaic environment*: Stratigraphy and sedimentary petrology of the northwest quarter of the Dutchman Butte quadrangle, southwest Oregon (Koler, Thomas Edward. 1979)
 - Estuaries*: Historical sedimentation patterns, processes and rates in Alsea Bay, a drowned-river estuary on the Oregon coast (Peterson, C. 1980)
 - Estuarine environment*: Holocene depositional evolution of a small active-margin estuary of the northwestern United States (Peterson, Curt D. 1984)
 - Nearshore environment*: Characteristics of coarse-grained sequences deposited in nearshore, wave-dominated environments; examples from the Miocene of southwest Oregon (Leithold, Elana L. 1984)
 - Rivers*: Age, facies relations, and a river mouth/shelf/submarine channel depositional model for the Clifton Formation, northwestern Oregon (Murphy, T. 1980)
- Sedimentary structures—Genesis**
 - Models*: Bedform climbing in theory and nature (Rubin, D. M. 1982)
- Sedimentary structures—Planar bedding structures**
 - Cross-stratification*: A transgressive shelf sequence exhibiting hummocky stratification; the Cape Sebastian Sandstone (Upper Cretaceous), southwestern Oregon (Bourgeois, Joanne. 1980)
 - Cyclic deposits and hummocky cross-stratification of probable storm origin in Upper Cretaceous rocks of the Cape Sebastian area, southwestern Oregon (Hunter, Ralph E. 1982)
 - Hummocks; do they grow? (Bourgeois, Joanne. 1983)
 - Sedimentology of the sandstone of Floras Lake (Miocene); transgressive, high-energy shelf deposition on a tectonically active margin, SW Oregon (Leithold, Elana L. 1983)
 - Varves*: Correlation of Alaskan varve thickness with climatic parameters, and use in paleoclimatic reconstruction (Perkins, James A. 1983)
- Sedimentary structures—Secondary structures**
 - Concretions*: Theories on the origin of Succor Creek thunder eggs (Kuhlman, Lisa. 1982)
- Sedimentary structures—Soft sediment deformation**
 - Olistostromes*: The origin of olistostromes in the Roseburg Formation in southwestern Oregon (Baldwin, Ewart M. 1984)
- Sedimentary structures—Turbidity current structures**
 - Graded bedding*: Sand transport through channels across an Eocene shelf and slope in southwestern Oregon, U.S.A. (Dott, R. H., Jr. 1979)
 - Olistostromes*: Deposition and penecontemporaneous deformation of sediments on a faulted submarine slope, Hunters Cove Formation (Campanian-Maestrichtian), southwest Oregon (Bourgeois, Joanne. 1982)
- Sedimentation—Controls**
 - Paleogeographic controls*: Neogene paleogeography of western Snake River plain, Idaho and Oregon (Porter, M. L. 1984)
 - Tectonic controls*: Late Mesozoic tectonics and sedimentation along the southwestern Oregon coast (Dott, R. H., Jr. 1980)
 - Pacific Northwest region (Yates, R. G. 1979)
 - Quaternary sedimentation on the tectonically active Oregon continental slope (Kulm, L. D. 1979)
 - Sedimentary response to Eocene tectonic rotation in western Oregon (Heller, Paul Lewis. 1983)
 - Sedimentation, structure and tectonics of the Umpqua Group (Paleocene to the early Eocene), southwestern Oregon (Ryberg, Paul Thomas. 1984)
 - Sedimentation, tectonics and sea-level change as reflected in four wave-dominated shelf sequences in Oregon and California (Bourgeois, Joanne. 1983)
 - Sedimentology and tectonics of Upper Cretaceous rocks, southwest Oregon (Bourgeois, Joanne. 1980)
 - Structural styles in Mesozoic melanges along the Pacific margin of North America and their relation to subduction tectonics (Cowan, Darrel S. 1981)
 - Tectonic control of Eocene arkosic sediment deposition, Oregon and Washington (Armentrout, John M. 1983)
 - Tectonics and sedimentation of the Upper Cretaceous Hornbrook Formation, Oregon and California (Nilsen, Tor H. 1984)
 - Volcanism and sedimentation of a Late Jurassic to Early Cretaceous Franciscan terrane near Bosley Butte, southwestern Oregon (Wiggins, Brian Douglas. 1980)
- Sedimentation—Cyclic processes**
 - Fluvial sedimentation*: Geomorphology, alluvial stratigraphy, and sediments; lower Siuslaw and Alsea River valleys, Oregon (Feierisen, Joseph John. 1981)
 - Nearshore sedimentation*: Cyclic deposits and hummocky cross-stratification of probable storm origin in Upper Cretaceous rocks of the Cape Sebastian area, southwestern Oregon (Hunter, Ralph E. 1982)
- Transgression**: A transgressive shelf sequence exhibiting hummocky stratification; the Cape Sebastian Sandstone (Upper Cretaceous), southwestern Oregon (Bourgeois, Joanne. 1980)
- Eocene eustatic versus tectonic changes on Pacific margin; comparison between San Diego, California, and Coos Bay, Oregon (Dott, Robert H., Jr. 1981)
- Late Cretaceous transgressive sedimentation; a comparison of the basal Hornbrook Formation and the Cape Sebastian Sandstone, northern California and southwestern Oregon (Bourgeois, Joanne. 1984)
- Sedimentation—Deposition**
 - Calderas*: Geology of the Whitehorse Caldera and caldera-fill deposits, Malheur County, Oregon (Rytuba, J. J. 1981)
 - Deltaic environment*: The environment of deposition of the late Eocene Bastendorff Formation of southwestern Oregon (Rooth, G. H. 1980)
 - Interpretation*: Depositional models for conglomerates of the Bushnell Rock Member, Lookingglass Formation, southwestern Oregon (Ahmad, Raisuddin. 1981)
 - Progradation*: Early Eocene depositional system along the southern Oregon Coast Range; Klamath Mountain borderland (Ryberg, Paul T. 1983)
- Sedimentation—Environment**
 - Coastal environment*: Depositional environments of some Pleistocene coastal terrace deposits, southwestern Oregon; case history of a progradational beach and dune sequence (Hunter, Ralph E. 1980)
 - Holocene sedimentation in the Tillamook Embayment, Oregon (Glenn, J. L. 1980)
 - Mid-Tertiary stratigraphy, petrology, and paleogeography of Oregon's central western Cascade Range (Miller, Paul R. 1984)
 - Surf zone dynamics during upwelling on the Oregon coast (Fox, W. T. 1979)
 - Continental margin*: Seismic facies of shelf-edge deposits, U.S. Pacific continental margin (Field, Michael E. 1983)
 - Shelfbreak circulation, fronts and physical oceanography; East and West coast perspectives (Pietrafesa, Leonard J. 1983)
 - Deep-sea environment*: Deep-sea fan deposition in an Eocene forearc basin, western Oregon (Chan, Marjorie A. 1980)
 - Delta-fed deep-sea ramp deposits in Eocene basins along the U.S. Pacific margin (Heller, Paul L. 1983)
 - Modern deep-sea-fan depositional processes and patterns (Nelson, C. Hans. 1984)
 - Deltaic environment*: Eocene wave-dominated deltaic sedimentation, Oregon Coast Range (Chan, Marjorie A. 1984)
 - Nonmarine lithofacies included in Scappoose Formation, northwest Oregon (Van Atta, Robert O. 1982)

- Stratigraphy, lithofacies, and environment of deposition of the Scappoose Formation in central Columbia County, Oregon (Kelty, Kevin Blair. 1981)
- Eolian environment:** The influence of wind in soil pedogenesis in the high Wallowa Mountains (McCormick, Robert. 1984)
- Estuaries:** Historical sedimentation patterns, processes and rates in Alsea Bay, a drowned-river estuary on the Oregon coast (Peterson, C. 1980)
- Estuarine environment:** Decomposition of organic matter in estuarine sediments by sulfate reduction; a field study from Yaquina Bay and sediment incubation experiments (Powell, Heidi Sara. 1980)
- Sedimentary environments in the Columbia River estuary (Roy, E. H. 1981)
- Suspended sediment response to semidiurnal and fortnightly tidal variations in a mesotidal estuary; Columbia River, U.S.A. (Gelfenbaum, Guy. 1982)
- Fluvial environment:** Depositional environments of the "Butte Creek Beds," central western Cascades, Oregon (Miller, Paul R. 1983)
- Geology of the Sandy River Preserve (Allen, John Eliot. 1984)
- Sources and distributions of sedimentary organic matter in the Columbia River drainage basin, Washington and Oregon (Hedges, John I. 1984)
- Glaciolacustrine environment:** Correlation of Alaskan varve thickness with climatic parameters, and use in paleoclimatic reconstruction (Perkins, James A. 1983)
- High-energy environment:** Depositional environments within high-energy tidally dominated embayments along Pacific margin, United States (Rappeport, M. L. 1980)
- Lacustrine environment:** Chemistry of zeolites and zeolitic tuffs from a Pliocene lacustrine deposit near Durkee, Baker County, Oregon (Sheppard, R. A. 1980)
- Marine environment:** Modern submarine fans and debris aprons; an update of the first half century (Nelson, C. Hans. 1983)
- Origin and development of Cascadia deep-sea channel (Griggs, Gary B. 1973)
- Plate tectonics, physiography, and sedimentation of the Northeast Pacific region (Howell, D. G. 1980)
- Use of benthic sediments as indicators of marina flushing (Slotta, L. S. 1977)
- Nearshore environment:** Characteristics of coarse-grained sequences deposited in nearshore, wave-dominated environments; examples from the Miocene of southwest Oregon (Leithold, Elana L. 1984)
- Distribution of beach sediment near the Columbia River (Ballard, Ronald Lee. 1964)
- Stratigraphy, lithofacies and depositional environment of the Cowlitz Formation, T. 4 and 5 N., R. 5 W., northwest Oregon (Timmons, Dale M. 1981)
- Wave-worked conglomerates; depositional processes and criteria for recognition (Bourgeois, Joanne. 1984)
- Reefs:** Triassic coral buildups in North America (Stanley, G. D., Jr. 1978)
- Rivers:** Age, facies relations, and a river mouth/shelf/submarine channel depositional model for the Clifton Formation, northwestern Oregon (Murphy, T. 1980)
- Shallow-water environment:** Mid-Tertiary carbonates, western Oregon (Orr, William N. 1982)
- Sedimentation, stratigraphy and facies variation of the lower to middle Miocene Astoria Formation in Oregon (Cooper, David Michael. 1980)
- Shelf environment:** Depositional provinces of Paleozoic and uppermost Precambrian rocks in Great Basin, western United States (Stewart, John H. 1981)
- Sedimentology of the sand of Floras Lake (Miocene), transgressive, high-energy shelf deposition, SW Oregon (Leithold, Elana L. 1983)
- The geology of the Nicolai Mountain-Gnat Creek area, Clatsop County, northwestern Oregon (Murphy, Thomas M. 1981)
- Sedimentation—Processes**
 - Base surges:** Base surge deposits in the western Cascades, Oregon (McDonough, W. F. 1980)
 - Deep-sea sedimentation:** Shelf and deep-sea sedimentation in Eocene forearc basin, western Oregon; fan or non-fan? (Chan, M. A. 1983)
 - Detrital sedimentation:** Comparison of sedimentology and diagenesis of Eocene rocks, southwest Oregon (Chan, Marjorie Ann. 1982)
 - Estuarine sedimentation:** Heavy minerals of Tillamook Bay surface sediments (Niem, W. A. 1980)
 - Physical and numerical modeling of estuarine sedimentation (McAnally, William H., Jr. 1980)
 - Sand-dispersal patterns in an active-margin estuary of the northwestern United States as indicated by sand composition, texture and bedforms (Peterson, Curt. 1982)
 - Sand dispersal patterns in small active margin estuaries (Peterson, C. D. 1981)
 - Sedimentation in small active-margin estuaries of the northwestern United States (Peterson, Curt Daniel. 1983)
 - Suspended-sediment response to semidiurnal and fortnightly tidal variations in a mesotidal estuary; Columbia River, U.S.A. (Gelfenbaum, Guy. 1983)
 - Lacustrine sedimentation:** Lake sediments (Knebel, H. J. 1980)
- Nearshore sedimentation:** Rapid sediment level fluctuations in the swash zone (Howd, Peter A. 1981)
- Sedimentation—Provenance**
 - Clay mineralogy:** Provenance, distribution and alteration of volcanic sediments in a saline alkaline lake (Deike, Ruth G. 1980)
 - Sediment sources and clay mineral distributions off the Oregon coast (Karlin, R. 1980)
 - Heavy minerals:** Opaque minerals as aids in distinguishing between source and sorting effects on beach-sand mineralogy in south-western Oregon (Luepke, G. 1980)
 - Results of heavy-mineral analyses of surface sediments in Tillamook Bay, Oregon (Niem, W. A. 1980)
 - Shallow shelf and beach heavy-mineral concentrations (Phillips, R. L. 1980)
 - Indicators:** Isotopic provenance of sandstones from the displaced Tyee Formation, Oregon Coast Range (Heller, Paul. 1984)
 - Provenance of Eocene graywackes of the Flournoy Formation near Agness, Oregon; a geochemical approach (Peterman, Zell E. 1981)
 - Lithofacies:** Sedimentary record of subduction to forearc transition in the rotated Eocene basin of western Oregon (Heller, Paul L. 1983)
 - Paleocurrents:** Geochemical evidence for changing provenance of Tertiary formations in northwestern Oregon (Kadri, Moinoddin M. 1983)
 - Provenance of Eocene graywackes of the Flournoy Formation near Agness, Oregon; a geochemical approach (Ahmad, Raisuddin. 1982)
 - Stratigraphy and sedimentology of the Osburger Gulch Sandstone Member of the Upper Cretaceous Hornbrook Formation, northern California and southern Oregon (Gaona, M. T. 1984)
 - Trench fill to forearc transition in the rotated Eocene flysch basin of the southern Oregon Coast Range (Heller, Paul L. 1982)
 - Patterns:** Multiple sediment sources and fine silt depositional patterns on the Oregon-Washington continental slope (Krissek, Lawrence A. 1982)
 - Sand:** Heavy-mineral variability in beach and dune sands in the vicinity of the mouth of the Columbia River (Luepke, Gretchen. 1982)
- Sedimentation—Sedimentation rates**
 - Beaches:** Holocene geologic history of the Clatsop Plains foredune ridge complex (Rankin, David Karl. 1983)
 - Controls:** Deposition on Pacific shelf edge; zone of contrasts (Field, Michael E. 1981)
 - Estuarine sedimentation:** Holocene depositional evolution of a small active-margin estuary of the northwestern United States (Peterson, Curt D. 1984)
- Lacustrine environment:** ^{210}Pb -determined sedimentation rates in upper Klamath Lake and Lake Euwana, Oregon (Martin, E. Ann. 1980)
- Lacustrine processes:** ^{210}Pb -determined sedimentation rates and trace-metal concentrations, upper Klamath Lake and Lake Euwana, Oregon (Martin, E. A. 1980)
- Marine sedimentation:** Tectonic summary of Leg 18 (von Huene, Roland. 1973)
- Observations:** Shoaling of Port of Astoria, Oregon, by sediment from Mt. St. Helens eruption (Slotta, Larry S. 1983)
- Sedimentation—Transport**
 - Estuarine environment:** Bedforms and sediment transport in the Columbia River estuary (Sherwood, Christopher R. 1981)
 - Gravel:** Gravel bedload transport processes (Klingeman, P. C. 1982)
 - Longshore currents:** Evidence for edge waves on the Oregon coast (Holman, R. A. 1982)
 - Marine transport:** Processes of selective grain transport and the formation of placers on beaches (Komar, Paul D. 1984)
 - Rhythmic shorelines on the Oregon coast (Garrow, H. C. 1982)
 - Sediment dispersal and accumulation in Quinalt Canyon; introduction and implications of particle size analysis (Carson, B. 1984)
 - Shoreline changes due to jetty construction on the Oregon coast (Komar, P. D. 1980)
 - Sources and dispersal of terrigenous sediments on the Oregon-Washington continental slope (Krissek, L. A. 1981)
 - Sources, dispersal, and contributions of fine-grained terrigenous sediments on the Oregon and Washington continental slope (Krissek, Lawrence Alan. 1982)
 - Temporal and spatial variability in the distribution of bedforms in the Columbia River estuary (Sherwood, C. R. 1982)
 - The relationship between sand size and beach-face slope (Bascom, Willard N. 1977)
 - The viscous sublayer on the continental shelf (Chriss, Terry M. 1980)
 - Mathematical models:** A time-dependent model of sediment transport and strata formation (Kachel, Nancy B. 1981)
 - Processes:** Geological oceanography (Boggs, Sam, Jr. 1977)
 - Stream transport:** A model of two-phase bedload transport in an Oregon Coast Range stream (Jackson, W. L. 1982)
 - An evaluation of suspended sediment and turbidity in Cow Creek, Oregon (Curtiss, D. A. 1983)
 - An evaluation of suspended sediments and turbidity in Cow Creek, Oregon (Curtiss, D. A. 1982)

- Changes in large organic debris in forested streams, western Oregon (Lienkaemper, G. W. 1980)
- Columbia River sediment sources (Whetten, John T. 1969)
- Deposits of excessive sediment load floods in volcanic regions; a modern and an ancient example (Smith, Richard D. 1983)
- Dynamic modelling of suspended sediment transport in streams as a function of sediment supply (VanSickle, John. 1983)
- Effect of aggradation and degradation on bar structure in natural gravel channels, northern California and southern Oregon (Lisle, Thomas E. 1981)
- Episodes of aggradation observed at nine gaging stations in northern California and southern Oregon (Lisle, T. E. 1980)
- Management effects on sediment production from small watersheds, Western Cascade Range, Oregon (Fredriksen, R. L. 1980)
- Sediment and organic matter transport in Oregon Coast Range streams (Beschta, Robert L. 1981)
- Sediment deposition in the Columbia and lower Cowlitz Rivers Washington-Oregon, caused by the May 18, 1980, eruption of Mount St. Helens (Haeni, F. P. 1983)
- Sediment transport in Oregon Coast Range streams (Beschta, R. L. 1980)
- Stochastic predictions of sediment yields from small coastal watersheds in Oregon, U.S.A. (VanSickle, John. 1982)
- Supply-based models of suspended sediment transport in streams (VanSickle, John. 1983)
- The geomorphic significance of log steps in forest streams of the Oregon Coast Range (Marston, Richard Alan. 1980)
- The velocity field and boundary shear stress field over sharp crested waves (McLean, S. R. 1982)
- Turbidity currents:** Debris flows and turbidites filling the basin of Crater Lake (Nelson, C. H. 1980)
- Deposition and penecontemporaneous deformation of sediments on a faulted submarine slope, Hunters Cove Formation (Campanian-?Maestrichtian), southwest Oregon (Bourgeois, Joanne. 1982)
- Sand transport through channels across an Eocene shelf and slope in southwestern Oregon, U.S.A. (Dott, R. H., Jr. 1979)
- Sedimentary history of the floor of Crater Lake, Oregon; a restricted basin with non-channelized turbidites (Nelson, C. H. 1980)
- Wind transport:** John Day Formation of Oregon; a distal record of early Cascade volcanism (Robinson, Paul T. 1984)
- Oblique dunes of Oregon coast (Richmond, Bruce M. 1981)
- Storm-controlled oblique dunes of the Oregon coast (Hunter, Ralph E. 1983)
- The petrology and stratigraphy of the Portland Hills Silt; a Pacific Northwest loess (Lentz, Rodney T. 1981)
- Sediments see also Sedimentary rocks; Sedimentary structures; Sedimentation**
- Sediments—Clastic sediments**
- Alluvium:** Geology, geomorphology, and dynamics of mass movement in parts of the Middle Santiam River drainage basin, Western Cascades, Oregon (Hicks, Bryan A. 1982)
- Geomorphology, alluvial stratigraphy, and sediments; lower Siuslaw and Alsea River valleys, Oregon (Feiereisen, Joseph John. 1981)
- Black sand:** Opaque minerals as aids in distinguishing between source and sorting effects on beach-sand mineralogy in southwestern Oregon (Luepke, G. 1980)
- Lake sediments:** Level of Lake Lahontan during deposition of the Trego Hot Springs Tephra about 23,400 years ago (Davis, Jonathan O. 1983)
- Lithofacies:** Quaternary sedimentation on the tectonically active Oregon continental slope (Kulm, L. D. 1979)
- Loess:** The petrology and stratigraphy of the Portland Hills Silt; a Pacific Northwest loess (Lentz, Rodney T. 1981)
- Placers:** Gold and bedrock (Bishop, Raymond. 1980)
- Provenance:** Provenance, distribution and alteration of volcanic sediments in a saline alkaline lake (Deike, Ruth G. 1980)
- Sediment sources and clay mineral distributions off the Oregon coast (Karlin, R. 1980)
- Pyroclastics:** Correlation of late Quaternary tephra layers from Lake Chewaucan, Oregon, with Lake Lahontan, Nevada (Davis, Jonathan O. 1982)
- Energy-dispersive X-ray fluorescence analysis as a rapid method for identifying tephra (Cormie, A. B. 1983)
- Sand:** Heavy-mineral variability in beach and dune sands in the vicinity of the mouth of the Columbia River (Luepke, Gretchen. 1982)
- Sand-dispersal patterns in an active-margin estuary of the northwestern United States as indicated by sand composition, texture and bedforms (Peterson, Curt. 1982)
- Stabilization of the I-84 sand dune (Anonymous. 1983)
- The relationship between sand size and beach-face slope (Bascam, Willard N. 1977)
- The spreading of sand tracers under water waves; laboratory and field investigations (Miller, M. C. 1979)
- Silt:** Multiple sediment sources and fine silt depositional patterns on the Oregon-Washington continental slope (Krissek, Lawrence A. 1982)
- Till:** Multiparameter relative dating (RD) techniques applied to morainal sequences along the eastern Sierra Nevada, California, and Wallowa Lake area, Oregon (Burke, Raymond Merle. 1979)
- Multiparameter relative dating techniques used to differentiate tills near Wallowa Lake, Oregon (Burke, R. M. 1980)
- Volcanic ash:** Base surge deposits in the western Cascades, Oregon (McDonough, W. F. 1980)
- Preliminary report on physical, chemical and mineralogical composition and health implications of ash from the Mount St. Helens eruption of May 18, 1980 (Battelle Memorial Institute, Pacific Northwest Laboratory. 1980)
- Sediments—Composition**
- Clay minerals:** Clay minerals of Lake Abert, an alkaline, saline lake (Jones, Blair F. 1983)
- Heavy minerals:** Results of heavy-mineral analyses of surface sediments in Tillamook Bay, Oregon (Niem, W. A. 1980)
- Sedimentation in small active-margin estuaries of the northwestern United States (Peterson, Curt Daniel. 1983)
- Shallow shelf and beach heavy-mineral concentrations (Phillips, R. L. 1980)
- Mineral composition:** Massive zinc and iron-rich sulfide deposits associated with hot springs, Juan de Fuca Ridge (Delaney, J. R. 1982)
- Organic materials:** Environmental controls on sediment texture and composition in low oxygen zones off Peru and Oregon (Krissek, Lawrence A. 1983)
- Influence of organic matter on the geotechnical properties and consolidation characteristics of northern Oregon continental slope sediments (McDonald, William P. 1983)
- Organic matter and the geotechnical properties of submarine sediments (Keller, George H. 1982)
- Radioactive isotopes:** Distribution of radioactive marine sediment derived from the Columbia River (Gross, M. Grant. 1966)
- Preliminary report on the sediments and radioactivity in the vicinity of the Columbia River effluent (Gross, M. Grant. 1963)
- Sinking rates of radioactive fallout particles in the North East Pacific Ocean, 1961-62 (Gross, M. Grant. 1967)
- Sediments—Distribution**
- Thickness:** Abyssal plain and continental net-objective sedimentary thicknesses (Connard, G. G. 1984)
- Transport:** Geological oceanography (Boggs, Sam, Jr. 1977)
- Sediments—Environmental analysis**
- Estuarine environment:** Holocene depositional evolution of a small active-margin estuary of the northwestern United States (Peterson, Curt D. 1984)
- Sediments—Geochemistry**
- Cadmium:** Cadmium adsorption by aerobic lake sediments (Wiley, John O. 1984)
- Intertidal environment:** Intertidal sulfur cycling (Minter, David. 1981)
- Iridium:** Asteroid extinction hypothesis (Kent, Dennis V. 1981)
- Isotopes:** $^{243,244}\text{Cm}$ in Columbia River sediments (Beasley, T. M. 1980)
- Organic materials:** Decomposition of organic matter in estuarine sediments by sulfate reduction; a field study from Yaquina Bay and sediment incubation experiments (Powell, Heidi Sara. 1980)
- Partitioning of trace organics in sediments (Piece, David P. 1981)
- Sources and distributions of sedimentary organic matter in the Columbia River drainage basin, Washington and Oregon (Hedges, John I. 1984)
- Radioactive isotopes:** The Columbia River sediment studies (Humphreys, L. L. 1963)
- Radioactivity:** Distribution and movement of radioactive Columbia River sediment on the Continental Shelf of Washington and Oregon (Gross, M. Grant. 1968)
- Trace elements:** ^{210}Pb -determined sedimentation rates and trace-metal concentrations, upper Klamath Lake and Lake Euwana, Oregon (Martin, E. A. 1980)
- ^{210}Pb geochronology and trace metal concentrations of sediments from upper Klamath Lake and Lake Euwana, Oregon (Martin, E. A. 1981)
- Trace metals:** A synoptic survey of trace metals in bottom sediments of the Willamette River, Oregon (Rickert, David A. 1977)
- Sediments—Lithofacies**
- Environmental analysis:** Depositional environments of some Pleistocene coastal terrace deposits, southwestern Oregon; case history of a progradational beach and dune sequence (Hunter, Ralph E. 1980)
- Depositional environments within high-energy tidally dominated embayments along Pacific margin, United States (Rapaport, M. L. 1980)
- Sediments—Marine sediments**
- Composition:** Composition, sources, and dispersal of hemipelagic sediment on the Oregon continental margin (Krissek, Lawrence A. 1980)
- Diagenesis:** Secondary carbonate on the Washington-Oregon lower continental slope; precipitation related to subduction? (Scamman, Robert L. 1981)
- Geochemistry:** Plutonium, ^{241}Am and ^{137}Cs ratios, inventories and vertical profiles in Washington and Oregon continental shelf sediments (Beasley, T. M. 1982)
- Use of benthic sediments as indicators of marina flushing (Slota, L. S. 1977)

Sediments

- Grain size:** Seasonal dynamics of nearshore sediments and currents off Coos Bay, Oregon (Sollitt, Charles K. 1981)
- Shelfbreak circulation, fronts and physical oceanography; East and West coast perspectives (Pietrafesa, Leonard J. 1983)
- Lithofacies:** Seismic facies of shelf-edge deposits, U.S. Pacific continental margin (Field, Michael E. 1983)
- Magnetic properties:** Diagenesis of magnetic minerals in Recent hemipelagic sediments (Karlin, R. 1982)
- Effects of laboratory drying on remanence of hemipelagic sediments (Levi, S. 1982)
- Provenance:** Sand dispersal patterns in small active margin estuaries (Peterson, C. D. 1981)
- Sources and dispersal of terrigenous sediments on the Oregon-Washington continental slope (Krissek, L. A. 1981)
- Sources, dispersal, and contributions of fine-grained terrigenous sediments on the Oregon and Washington continental slope (Krissek, Lawrence Alan. 1982)
- Textures:** Sediment dispersal and accumulation in Quinault Canyon; introduction and implications of particle size analysis (Carson, B. 1984)
- Texture and mineralogy of continental margin sediments (Scheidegger, K. F. 1984)
- Sediments—Pore water**
- Geochemistry:** Appendix II; Interstitial water studies on small core samples, legs 16, 17, and 18 (Watterman, Lee S. 1973)
- The decomposition of organic matter in an anoxic estuarine environment (Powell, H. 1980)
- Sediments—Properties**
- Magnetic properties:** Magnetostatigraphy of sediments in the Atlantic Coastal Plain and Pacific Coast of the United States as an aid for dating tectonic deformation (Liddicoat, J. C. 1981)
- Sediments—Provenance**
- Fluvial environment:** Sediment sources and clay mineral distributions off the Oregon coast; evidence for a poleward slope undercurrent (Karlin, Robert. 1979)
- Heavy minerals:** Heavy minerals of Tillamook Bay surface sediments (Niem, W. A. 1980)
- Interpretation:** Continental source area contributions to fine-grained sediments on the Oregon and Washington continental slope (Krissek, L. A. 1984)
- Sediments—Textures**
- Grain size:** Processes of selective grain transport and the formation of placers on beaches (Komar, Paul D. 1984)
- Granulometry:** Historical sedimentation patterns, processes and rates in Alsea Bay, a drowned-river estuary on the Oregon coast (Peterson, C. 1980)
- Seismic surveys see under** Geophysical surveys; *see under* Geophysical surveys *under* Basin and Range Province; Pacific Coast; Pacific Ocean
- Seismology see also** Engineering geology
- Seismology**
- Crust:** A seismic refraction study of the Oregon Cascades (Leaver, Donald S. 1984)
- An investigation of Pn propagation in Oregon (Ganoe, S. 1983)
- Oregon seismic experiment (Stauber, Douglas A. 1984)
- Seismicity of Mount Hood and structure as determined from teleseismic P wave delay studies (Weaver, C. S. 1982)
- Shear wave structure of the southern Volcanic Plateau of Oregon and Idaho and the northern Great Basin of Nevada from surface wave dispersion (Priestley, Keith F. 1982)
- Upper crustal structure of the Mount Hood, Oregon, region as revealed by time term analysis (Kohler, W. M. 1982)
- Upper crustal structure of the Mount Hood region, Oregon (Kohler, W. M. 1980)
- Earthquakes:** Earthquake catalog system (Washington Public Power Supply System. 1979)
- Far-field aftershocks of the 1906 San Francisco earthquake? (Steeple, Don W. 1981)
- July 1980 Mount Hood earthquake swarm (Rite, Alan. 1980)
- July 1980 Mt. Hood earthquake swarm (Rite, Alan. 1981)
- Oregon seismicity; August 1980 to October 1982 (Kollman, A. 1984)
- Oregon seismicity; 1981 (Rite, A. 1981)
- Seismicity in the Cascades of Oregon and California (Iyer, H. M. 1983)
- Elastic waves:** Pacific Northwest states local traveltime curves and their geologic implications (Dehlinger, Peter. 1964)
- Teleseismic P-wave delays in the Oregon Cascades (Iyer, H. M. 1981)
- Teleseismic P-wave-residual studies in Washington and northern Oregon (Michaelson, C. A. 1981)
- Explosions:** Oregon seismic experiment (Stauber, Douglas A. 1984)
- Mantle:** Seismological investigations in the Pacific Northwest states (Dehlinger, Peter. 1971)
- Seismicity:** Geotechnical and strong motion earthquake data from U.S. accelerograph stations; Anchorage, AK (AMU Gould Hall), Seattle, WA (Federal Office Building), Olympia, WA (Highway Test Lab), Portland, OR (State Office Building and PSU Cramer Hall) (Shannon and Wilson. 1980)
- Seismology—Catalogs**
- Earthquakes:** An earthquake catalog for the Basin and Range Province, 1803-1977 (Askew, Bonny. 1983)

Seismology

- Earthquake catalog system (Washington Public Power Supply System. 1979)
- Oregon seismicity; August 1980 to October 1982 (Kollman, A. 1984)
- Seismology—Crust**
- Lithosphere:** Structure of the lithosphere in the Basin and Range Province from Rayleigh and Love wave data (Priestley, Keith. 1978)
- Pn-waves:** An investigation of Pn propagation in Oregon (Ganoe, S. 1983)
- Q:** Regional variation and frequency dependence of Q_p in the crust of the United States (Mitchell, Brian J. 1981)
- Structure:** Crustal structure, geophysical models and contemporary tectonism of the Colorado Plateau (Keller, G. R. 1979)
- Velocity structure:** Crustal structure near the Juan de Fuca and Explorer plate boundary from seismic refraction data (Au, D. 1979)
- Crustal structure of Hercynian Europe and the North American Basin and Range Province; a tectonic analogy? (Prodehl, C. 1981)
- Evidence for the subducting lithosphere under southern Vancouver Island and western Oregon from teleseismic P wave conversions (Langston, Charles A. 1981)
- Shear wave structure of the southern Volcanic Plateau of Oregon and Idaho and the northern Great Basin of Nevada from surface wave dispersion (Priestley, Keith F. 1982)
- Three-dimensional crust-upper mantle velocity structure of southern Alaska (Zandt, G. 1982)
- Upper crustal structure of the Mount Hood, Oregon, region as revealed by time term analysis (Kohler, W. M. 1982)
- Upper crustal structure of the Mount Hood region, Oregon (Kohler, W. M. 1980)
- Seismology—Earthquakes**
- Aftershocks:** Far-field aftershocks of the 1906 San Francisco earthquake? (Steeple, Don W. 1981)
- Elastic waves:** Q in the Basin and Range from Lg waves (Patton, Howard J. 1982)
- Ground motion:** Geotechnical data from accelerograph stations investigated during the period 1975-1979; summary report (Shannon and Wilson. 1980)
- Prediction:** Estimating the source parameters for a major subduction zone earthquake in the Pacific Northwest (Hartzell, S. H. 1984)
- Seismic intensity:** Preliminary isoseismal map and intensity distribution for the Borah Peak, Idaho, earthquake of October 28, 1983 (Stover, Carl W. 1984)
- Seismic risk:** Probabilistic estimates of maximum seismic horizontal ground motion on rock in the Pacific Northwest and the adjacent outer continental shelf (Perkins, D. M. 1980)
- Seismic sources:** G. K. Gilbert's studies of faults, scarps, and earthquakes (Wallace, Robert E. 1980)
- Seismotectonics:** Late Quaternary faulting as a guide to regional variations in long-term rates of seismic activity (Bucknam, Robert C. 1981)
- Some results on the 3-D velocity distribution in Alaska (Biswas, N. N. 1982)
- Upper mantle P-wave (Pn) velocities within the Shumagin seismic network, eastern Aleutians, Alaska (Hauksson, E. 1982)
- Swarms:** July 1980 Mount Hood earthquake swarm (Rite, A. 1980)
- July 1980 Mt. Hood earthquake swarm (Rite, Alan. 1981)
- Traveltime:** Seismological investigations in the Pacific Northwest states (Dehlinger, Peter. 1971)
- Seismology—Elastic waves**
- Attenuation:** Q structure of the Basin and Range from surface waves (Patton, Howard J. 1984)
- Automatic data processing:** Numerical wave analysis in faulted basins on the CRAY I (Wojcik, G. L. 1982)
- P-waves:** High frequency normal mode seismogram synthesis; the Pg phase at near-regional distances (Harvey, D. J. 1980)
- Investigation of Pn wave propagation in Oregon (Ganoe, Steven J. 1983)
- Teleseismic P-wave delays in the Oregon Cascades (Iyer, H. M. 1981)
- Teleseismic P-wave-residual studies in Washington and northern Oregon (Michaelson, C. A. 1981)
- Traveltime:** Pacific Northwest states local traveltime curves and their geologic implications (Dehlinger, Peter. 1964)
- Seismology—Explosions**
- Nuclear explosions:** The use of regional phase measurements to discriminate events in the vicinity of NTS (Bennett, T. J. 1983)
- Stress:** Fault-related stress determinations using the piezomagnetic effect of rocks (Narbut, Susan M. 1983)
- Seismology—Interior**
- Velocity structure:** A seismic refraction study of the Oregon Cascades (Leaver, Donald S. 1984)
- Seismology—Microearthquakes**
- Epocenters:** Geophysical studies of active geothermal systems in the northern Basin and Range (Ward, Stanley H. 1983)
- Seismology—Microseisms**
- Seismic sources:** Microseismicity on the Gorda Ridge (Solano-Borrego, Ariel E. 1982)
- Seismology—Observations**
- Arrays:** Geotechnical and strong motion earthquake data from U.S. accelerograph stations; Anchorage, AK (AMU Gould Hall), Seattle, WA (Federal Office Building), Olympia, WA (Highway Test Lab), Portland, OR (State Office Building and PSU Cramer Hall) (Shannon and Wilson. 1980)

Seismology—Seismicity

- Earthquakes:** Historical seismicity 1841-1979 (Kelly, S. M. 1984)
- Seismicity in the Cascades of Oregon and California (Iyer, H. M. 1983)
- Seismicity, 1970-1979 (Kelly, S. M. 1984)
- Magnitude:** Oregon seismicity; 1981 (Rite, A. 1981)
- Seismic risk:** A preliminary evaluation of the seismicity of southwestern Idaho and eastern Oregon; implications for geologic engineering studies (Vincent, Kirk R. 1978)
- Seismotectonics:** Seismotectonic regionalization of the Great Basin, and comparison of moment rates computed from Holocene strain and historic seismicity (Greensfelder, R. W. 1980)
- Time-domain analysis:** Time domain measurements of long-period seismic phases recorded at regional distances for use in event discrimination (Bennett, Theron J. 1981)
- Seismology—Tsunamis**
- Destruction:** Tsunami; a wave like no others (Witten, Don. 1984)
- Shore features** *see under* Geomorphology
- Shorelines** *see also under* Engineering geology; *see also under* Engineering geology *under* Pacific Coast
- Silicon—Geochemistry**
- Soils:** Silicic acid and oxidizable carbon movement in a Walla Walla silt loam as related to long-term residue and nitrogen applications (Douglas, Clyde Lee, Jr. 1984)
- Sills** *see under* Intrusions
- Silt** *see under* Clastic sediments *under* Sediments
- Silurian** *see also under* Stratigraphy; *see also under* Stratigraphy *under* Great Basin
- Silver—Geochemistry**
- Sediments:** Mineral potential of the Fall Creek mining district; a geological-geochemical survey (Gray, Jerry J. 1983)
- Stream sediments:** A synoptic survey of trace metals in bottom sediments of the Willamette River, Oregon (Rickert, David A. 1977)
- Slope stability** *see also under* Engineering geology; Geomorphology; *see also under* Engineering geology *under* Automatic data processing; Pacific Coast
- Slope stability—Landslides**
- Watersheds:** Mathematical modeling approach for delineating landslide hazards in watersheds (Ward, Timothy J. 1979)
- Sodium—Abundance**
- Suspended materials:** Factors contributing to the maintenance of oligotrophy in an alpine glacial moraine lake (Wallowa Lake) in northeast Oregon (Larson, Douglas W. 1981)
- Sodium—Geochemistry**
- Ground water:** Chemistry of ground waters associated with the Grants Pass Batholith, Klamath Mountains, OR (Mack, Gregory S. 1982)

- Meteorites:** Sodium and manganese homogeneity in chondritic meteorites (Osborn, T. W. 1970)
- Norite:** Origin of comb layering in the Willow Lake Intrusion, N.E. Oregon (Carpenter, Paul K. 1983)
- Thermal waters:** Geochemistry of active geothermal systems in the northern Basin and Range Province (Mariner, R. H. 1983)
- Soil mechanics** *see also* Rock mechanics
- Soil mechanics—Applications**
- Foundations:** Field measurements of an earth support system (Shen, C. K. 1981)
- Soil mechanics—Field studies**
- Debris flows:** Debris flow hazard assessment for the Oregon Caves National Monument (Friday, John. 1983)
- Soil mechanics—Materials, properties**
- Alluvium:** The engineering properties of alluvial/colluvial fault scarp soils in the western Basin and Range, and their influence on fault scarp morphology/dating (Prokop, Christopher Jon. 1983)
- Bulk density:** Influence of organic matter on the geotechnical properties and consolidation characteristics of northern Oregon continental slope sediments (McDonald, William P. 1983)
- Classification:** Some engineering aspects of forest soils (Klock, G. O. 1979)
- Clay:** Stability of slopes in clay shales interbedded with Columbia River basalt (Anderson, Roy Arnold, Jr. 1971)
- Mechanical properties:** Geotechnical significance of poorly crystalline soils derived from volcanic ash (Thrall, Frederick Glen. 1981)
- Sediments:** Geotechnical properties and stability characteristics of continental slope deposits influenced by coastal upwelling (Keller, George H. 1981)
- Shear strength:** Organic matter and the geotechnical properties of submarine sediments (Keller, George H. 1982)
- Volcanic ash:** Mount St. Helens ash; suitability for use as engineered fill (Shorey, Edwin F. 1983)
- Soils**
- Classification:** Geomorphic occurrence of pelloxererts, Willamette Valley, Oregon (Parsons, R. B. 1973)
- Soils of the Oregon coastal fog belt in relation to the proposed "Andisol" order (Badayos, Rodrigo Briones. 1983)
- Spodosols along the Southwest Oregon coast (Nettleton, W. D. 1982)
- Composition:** Clay mineralogy in relation to landscape instability in the Coast Range of Oregon (Is-tok, J. D. 1982)
- Correlation of soil plasticity with amorphous clay constituents (McNabb, D. H. 1979)

- Conservation:** Silicic acid and oxidizable carbon movement in a Walla Walla silt loam as related to long-term management (Douglas, C. L. 1984)
- Erosion:** Erosion modeling in the Pacific Northwest (McCool, D. K. 1973)
- Field studies:** Development and calibration of an irregular hole bulk density sampler (Flint, Alan L. 1984)
- Geochemistry:** Carbon and nitrogen in the light fraction of a forest soil; vertical distribution and seasonal patterns (Spycher, Gody. 1983)
- Silicic acid and oxidizable carbon movement in a Walla Walla silt loam as related to long-term residue and nitrogen applications (Douglas, Clyde Lee, Jr. 1984)
- Soil solution chemistry, profile development, and mineral authigenesis in several western Oregon soils (Glasman, Joseph Reed. 1982)
- Inceptisols:** Clay mineralogy of seven dystrandepts developed from basalts in Northland, the French Massif Central and western Oregon (Mizota, C. 1981)
- Maps:** Soil survey of Gilliam County, Oregon (Hosler, Richard E. 1984)
- Soil survey of Grant County, Oregon, central part (Dyksterhuis, Eugene L. 1981)
- Soil survey of Hood River County area, Oregon (Green, George L. 1981)
- Soil survey of Josephine County, Oregon (Borine, Roger. 1983)
- Soil survey of Malheur County, Oregon; northeastern part (Lovell, Burrell B. 1980)
- Soil survey of Morrow County area, Oregon (Hosler, Richard E. 1983)
- Soil survey of Multnomah County, Oregon (Green, George L. 1983)
- Soil survey of Polk County, Oregon (Knezevich, Clarence A. 1982)
- Soil survey of Wasco County, Oregon, northern part (Green, George L. 1982)
- Soil survey of Washington County, Oregon (Green, George L. 1982)
- Morphology:** Comment and reply on "The petrology and stratigraphy of the Portland Hills Silt; a Pacific Northwest loess" (Parsons, Roger B. 1981)
- Origin of soil materials in foothill soils of Willamette Valley, Oregon; comment and reply (Parsons, R. B. 1980)
- Soil-geomorphic relationships in the western margin of the Willamette Valley, Oregon (Glasman, J. R. 1980)
- Pedogenesis:** A lithosequence in the mountains of southwestern Oregon (Parsons, R. B. 1975)
- Inherited and detrital 2:1 type phyllosilicates in soils developed from Mazama Ash (Dudas, M. J. 1975)
- Origin of soil materials in foothill soils of Willamette Valley, Oregon (Glasman, J. R. 1980)
- The influence of wind in soil pedogenesis in the high Wallowa Mountains (McCormick, Robert. 1984)
- Weathering and authigenic halloysite in soil developed in Mazama Ash (Dudas, M. J. 1975)
- Properties:** Physical properties of rock fragments and their effect on available water in skeletal soils (Flint, Alan L. 1984)
- Soil erosion:** A study of erosion processes in Malheur County soils (Tyner, Becky. 1982)
- Runoff and soil erosion on frozen soils in northeastern Oregon (Zuzel, John F. 1982)
- Surveys:** Farm land value ratios for Willamette Valley; soils in Polk County, Oregon (Meyers, Joseph D. 1970)
- Forest chemicals in watershed management (Moore, D. G. 1979)
- Forest soils of the Douglas-fir region (Heilman, Paul E. 1979)
- Geology of the Douglas-fir region; geologic look at soils of the Douglas-fir region (Janda, Richard J. 1979)
- Geology of the Douglas-fir region; Introduction (Heilman, Paul E. 1979)
- Geology of the Douglas-fir region; the Cascade Range in Oregon and southern Oregon (Walker, G. W. 1979)
- Geology of the Douglas-fir region; The Klamath Mountains and Coast Ranges of northern California (Irwin, W. P. 1979)
- Geology of the Douglas-fir region; the Oregon and Washington Coast Ranges (Snively, Parke D., Jr. 1979)
- Geology of the Douglas-fir region; the Willamette Valley (Snively, Parke D., Jr. 1979)
- Geomorphic surfaces and soil development in the upper Rogue River valley, Oregon (Parsons, R. B. 1976)
- Infiltration, soil erosion, nitrogen loss and soil profile characteristics of Oregon lands occupied by three subspecies of *Artemisia tridentata* (Swanson, Sherman Roger. 1983)
- Minerals, chemical properties and fertility of forest soils (Heilman, Paul E. 1979)
- Physical properties and physical behavior of forest soils (Ballard, T. M. 1979)
- Physical properties of soils derived from volcanic ash with consideration of some soils of Latin America (Forsythe, W. M. 1969)
- Soil formation, classification and morphology (Mitchel, R. F. 1979)
- Soil management in Douglas-fir nurseries (van den Driessche, R. 1979)
- Soil, vegetation and watershed management (Fredriksen, R. L. 1979)

- Water regimes:** Influence of soil moisture on smectite formation in soils derived from serpentinite (Istok, J. D. 1982)
- Overland flow from sloping land; effects of perched water tables and subsurface drains (Lowery, B. 1982)
 - Perched water tables on hill-sides in western Oregon; I, Some factors affecting their development and longevity (Hammermeister, D. P. 1982)
 - Perched water tables on hill-sides in western Oregon; II, Preferential downslope movement of water and anions (Hammermeister, D. P. 1982)
 - Relationship of the nature of suspended clay minerals to hydrologic conditions (Laird, David. 1982)
- Soils—Analysis**
- Chemical analysis:** Appendix A; Analytical laboratory procedure for the Newberry mercury survey (Hadden, R. Mark. 1983)
- Soil-mercury survey error analysis (Priest, George R. 1983)
- Soils—Classification**
- Andosols:** An evaluation of potassium hydroxide extractable aluminum in Andepts (Andisols) (Kimble, J. M. 1984)
- Soils—Geochemistry**
- Dissolved materials:** Nitrogen and carbon solution chemistry of an old growth coniferous forest watershed before and after cutting (Sollins, P. 1981)
- Mercury:** Exploration for geothermal areas using mercury; a new geochemical technique (Matlick, Joseph S., III. 1978)
- Soils—Surveys**
- Basin and Range Province:** Landforms of the Basin & Range Province; defined for soil survey (Peterson, Frederick F. 1981)
- British Columbia:** Erosion modeling in the Pacific Northwest (McCool, D. K. 1973)
- Forest chemicals in watershed management (Moore, D. G. 1979)
 - Forest soils of the Douglas-fir region (Heilman, Paul E. 1979)
 - Geology of the Douglas-fir region; geologic look at soils of the Douglas-fir region (Janda, Richard J. 1979)
 - Geology of the Douglas-fir region; Introduction (Heilman, Paul E. 1979)
 - Minerals, chemical properties and fertility of forest soils (Heilman, Paul E. 1979)
 - Physical properties and physical behavior of forest soils (Ballard, T. M. 1979)
 - Soil formation, classification and morphology (Mitchel, R. F. 1979)
 - Soil management in Douglas-fir nurseries (van den Driessche, R. 1979)
 - Soil, vegetation and watershed management (Fredriksen, R. L. 1979)
 - Some engineering aspects of forest soils (Klock, G. O. 1979)
- California:** Forest chemicals in watershed management (Moore, D. G. 1979)
- Forest soils of the Douglas-fir region (Heilman, Paul E. 1979)
 - Geology of the Douglas-fir region; geologic look at soils of the Douglas-fir region (Janda, Richard J. 1979)
 - Geology of the Douglas-fir region; Introduction (Heilman, Paul E. 1979)
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- Water:* Strontium-90 and caesium-137 in Columbia River plume, July 1964 (Park, Kilho. 1965)
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- Basalts:* Major and trace element studies of central High Cascades platform basalts (Hughes, Scott S. 1981)
- Strontium—Isotopes**
- Ratios:* Silicic volcanism and continental extension; implications for the nature of the crust in the Western U.S. (Wilson, Robert T. 1983)
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- Structural analysis see also Folds; Lineation; Tectonics**
- Structural analysis—Faults**
- Regional patterns:* Structural analysis of the John Day and Mitchell fault zones, north-central Oregon (Ehret, Gayle Ann. 1980)
- Structural analysis—Folds**
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- Structural analysis—Interpretation**
- Deformation:* The Elkhorn Ridge Argillite; a deformed accretionary prism in northeastern Oregon (Coward, R. I. 1982)
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- Tectonite:* The kinematic insignificance of mineral lineations in a late Jurassic thrust and fold belt in eastern Oregon, U.S.A. (Ave Lallemand, Hans G. 1983)
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- Faults:* A geophysical definition of a Klamath Falls graben fault (Veen, Cynthia Ann. 1979)
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- Neotectonics:* A geophysical study of the North Scappoose Creek - Alder Creek - Clatskanie River lineament, along the trend of the Portland Hills fault, Columbia County, Oregon (Haas, Nina. 1983)
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- Sedimentation during collision and rotation of the Oregon Coast Range; constraints on models of tectonic rotation (Heller, Paul L. 1983)
- Sedimentation, structure and tectonics of the Umpqua Group (Paleocene to early Eocene), southwestern Oregon (Ryberg, Paul Thomas. 1984)
- Sedimentation, tectonics and sea-level change as reflected in four wave-dominated shelf sequences in Oregon and California (Bourgeois, Joanne. 1983)
- Sedimentology and tectonics of Upper Cretaceous rocks, southwest Oregon (Bourgeois, Joanne. 1980)
- Serpentine-matrix melanges in parts of the Blue Mountains of northeast Oregon (Ferns, Mark L. 1983)
- Small-scale synsedimentary structures reflecting an extensional tectonic regime; examples from Upper Cretaceous Cape Sebastian and Hunters Cove formations, Southwest Oregon (Bourgeois, Joanne. 1982)
- Some important facts and inferences concerning the Columbia River Basalt Group (Swanson, D. A. 1978)
- Stratigraphy, age, and tectonic setting of the Miocene-Pliocene lacustrine sediments of the western Snake River plain, Oregon and Idaho (Kimmel, Peter G. 1982)
- Strontium isotopic variations in western Idaho and eastern Oregon and Washington (Fleck, Robert J. 1983)
- Structural evolution of the Columbia Plateau in Washington and Oregon (Barrash, Warren. 1983)
- Structural geology and metamorphic petrology of the southern Snake River canyon, Oregon (Jenkins, L. S. 1980)
- Structural geology of the southeast quarter of the Dutchman Butte quadrangle, Oregon (Black, Gerald Lee. 1979)
- Structural geology, stratigraphy, and petrology of the Elkhorn Ridge Argillite, in the Sumpter area, northeastern Oregon (Coward, Robert Irvin. 1983)
- Structure and stratigraphy of a portion of the Fish Creek Mountain 15' quadrangle, Clackamas County, Oregon (Portwood, Barbara Beth. 1979)
- Summary of tectonic models for the origin of the Columbia River Plateau (Beck, Myrl E., Jr. 1978)
- Tectonic evolution of the southeastern part of the Columbia River basalt plateau (Camp, V. E. 1980)
- Tectonic implications and paleomagnetic evidence for post Oligocene rotation of the Oregon Cascades (Magill, J. 1980)
- Tectonics and sedimentation of the Upper Cretaceous Hornbrook Formation, Oregon and California (Nilsen, Tor H. 1984)
- Tectonostratigraphic terranes in southwestern Oregon (Blake, M. C., Jr. 1984)
- The Blue Mountains of eastern Oregon; their position in the western American Cordillera (Roure, F. 1981)
- The La Grande pull-apart basin, northeastern Oregon (Gehrels, G. E. 1980)
- The pre-Tertiary tectonics of the Blue Mountains region, NE Oregon (Ave Lallemant, Hans G. 1983)

- The relationship of the Columbia River Basalt Group to the geothermal potential of the Mount Hood area, Oregon (Beeson, Marvin H. 1982)
 - The significance of the Condrey Mountain Dome in the evolution of the Klamath Mountains, California and Oregon (Coleman, R. G. 1983)
 - The southeast part of the Columbia Plateau; tectonic evolution (Hooper, P. R. 1982)
 - The stratigraphy and structure of the Columbia River Basalt in the Clackamas River area (Anderson, James L. 1977)
 - Trench fill to forearc transition in the rotated Eocene flysch basin of the southern Oregon Coast Range (Heller, Paul L. 1982)
- Structural petrology** *see* Structural analysis
- Sulfides** *see* *under* Minerals
- Sulfur** *see* *also* *under* Geochemistry
- Sulfur—Geochemistry**
- Intertidal environment:* Intertidal sulfur cycling (Minter, David. 1981)
- Reduction:* Decomposition of organic matter in estuarine sediments by sulfate reduction; a field study from Yaquina Bay and sediment incubation experiments (Powell, Heidi Sara. 1980)
- Sulfur—Isotopes**
- S-34/S-32:* Gravity, isotope, and geochemical study of the Alvord Valley geothermal area, Oregon (Cleary, John. 1981)
- Sulfur isotope geochemistry of the Red Ledge and other massive sulfide deposits of the Northwest (Fifarek, Richard H. 1983)
- The "tops" of porphyry copper deposits; mineralization and plutonism in the western Cascades, Oregon (Power, Sara Glen. 1984)
- Sulphur** *see* Sulfur
- Survey organizations—Annual report**
- Oregon Department of Geology and Mineral Industries:* Surface mined land reclamation in Oregon, 1981 (Lawson, Paul F. 1982)
- U. S. Geological Survey:* Third annual report of the State Map Advisory Committee for Oregon, 1981; January 1, 1981-December 31, 1981 (Beaulieu, John D. 1982)
- Survey organizations—Current research**
- U. S. Geological Survey:* High-level and transuranic wastes; Geological Survey program for identifying environments suitable for disposal of high-level waste (Bedinger, M. S. 1984)
- The Volcano Hazards Program; objectives and long-range plans (Bailey, R. A. 1983)
- Survey organizations—History**
- U. S. Geological Survey:* Quaternary research in the Northwest 1805-1979 by early government surveys and the U. S. Geological Survey, and prospects for the future (Waitt, Richard B., Jr. 1982)
- 100 years of geology by the United States Geological Survey in the Pacific Northwest (Weisenborn, A. E. 1982)
- Survey organizations—Research**
- U. S. Geological Survey:* EEZ bathymetry; ship time opportunities (Pryor, Donald. 1984)
- Surveys** *see* *also* *under* Geochemistry; Geophysical surveys; Soils
- Symposia—Areal geology**
- Basin and Range Province:* Basin and Range symposium and Great Basin field conference (Newman, Gary W. 1979)
- Cascade Range:* Goals are set for research in Cascades (Bacon, Charles R. 1980)
- Symposia—Economic geology**
- Energy sources:* Proceedings of the Citizens' forum on potential future energy sources (Dittmer, Karl. 1975)
- Mineral resources:* Proceedings of the symposium on mineral deposits of the Pacific Northwest (Silberman, M. L. 1981)
- The role of heat in the development of energy and mineral resources in the northern Basin and Range Province (Anonymous. 1983)
- Symposia—Environmental geology**
- Land use:* Conference/workshop proceedings; Recommendations for baseline research in Washington and Oregon relative to offshore resource development (Massoglia, Martin F. 1977)
- Symposia—General**
- Oregon Academy of Science:* Abstracts and selected papers presented at the Forty-second annual meeting of the Oregon Academy of Science (Miller, Charles B. 1984)
- Symposia—Oceanography**
- Ocean circulation:* Reviewing upwelling & sediments (Suess, Erwin. 1982)
- Symposia—Seismology**
- Seismicity:* Tectonics and seismicity of the Columbia Plateau workshop (Anonymous. 1978)
- Symposia—Stratigraphy**
- Cenozoic:* Pacific Northwest Cenozoic biostratigraphy (Armentrout, John M. 1981)
- Cretaceous:* Geology of the Upper Cretaceous Hornbrook Formation, Oregon and California (Nilsen, Tor H. 1984)
- Symposia—Structural geology**
- Tectonics:* Tectonics and seismicity of the Columbia Plateau workshop (Anonymous. 1978)
- Tectonics** *see* *also* Faults; Folds; Orogeny; Plate tectonics; Structural analysis; Structural geology; *see also* *under* Structural geology *under* Automatic data processing; Basin and Range Province; Columbia Plateau; Pacific Coast; Symposia
- Tectonics—Concepts**
- Basin range structure:* G. K. Gilbert's studies of faults, scarps, and earthquakes (Wallace, Robert E. 1980)
- Tectonophysics**
- Crust:* A random medium model of the crustal velocity structure near Mt. Hood, Ore. (Leaver, D. 1982)
- Active deformation of the Pacific Northwest continental margin (Adams, John. 1984)
- Analysis of aeromagnetic measurements from the Cascade Range in central Oregon (Connard, G. 1983)
- Crustal structure of the central Oregon continental margin (Braman, D. 1980)
- Crustal thickening of the Blue Mountain island arc, northeastern Oregon and western Idaho (Vallier, T. L. 1980)
- Gravity investigations west of the coasts of Oregon, Washington, and northern California (Dehlinger, Peter. 1971)
- Implications of heat driven extension for some Cenozoic structures in Oregon (Conrey, Richard M. 1984)
- Interpretation of long-line time-domain electromagnetic data from northwestern United States (Skokan, Catherine K. 1980)
- Investigation of P_n wave propagation in Oregon (Ganoe, Steven J. 1983)
- Microseismicity on the Gorda Ridge (Solano-Borrego, Ariel E. 1982)
- Mixed stochastic and deterministic modeling of the crustal structure in the vicinity of Mount Hood, Oregon (Leaver, Donald S. 1984)
- Sonobuoy refraction study of the crust in the Gorda Basin (Cook, Jeffrey A. 1981)
- Upper crustal structure of the Mount Hood, Oregon, region as revealed by time-term analysis (Kohler, W. M. 1980)
- Wide angle seismic refraction and reflection studies of the northern California and southern Oregon continental margins (Keser, Judith. 1978)
- Heat flow:* Detailed plots of convective heat-flow models (Blackwell, David D. 1983)
- Heat flow of the Oregon Cascades (Black, Gerald L. 1982)
- Structural and heat flow implications of infrared anomalies at Mt. Hood, Oregon, 1972-1977 (Friedman, Jules D. 1982)
- Thermal models of the Newberry Volcano, Oregon (Blackwell, David D. 1983)
- Isostasy:* Investigation of P_n wave propagation in Oregon (Ganoe, Steven J. 1983)
- Mantle:* Magnetic studies off the Pacific Northwest (Heinrichs, Donald F. 1971)
- Paleomagnetism:* Anomalous paleomagnetic directions from the Miocene Wanapum Basalt, Washington and Oregon (Sheriff, Steven D. 1980)
- Some aspects of magnetic viscosity in subaerial and submarine volcanic rocks (Prevot, M. 1981)
- Plate tectonics:* A captured island chain in the Coast Range, Oregon and Washington (Duncan, Robert A. 1981)
- A geological profile of the mountain ranges of the Western U.S. (California and southwestern Oregon); presentation of a paleosubduction model (Roure, Francois. 1979)
- A geological transect between the Klamath Mountains and the Pacific Ocean (southwestern Oregon); a model for paleosubductions (Roure, Francois. 1983)
- A possible ophiolite sequence at Frenchy Butte, Oregon (Hansen, Renate. 1982)
- Apparent clockwise rotations in the central Columbia Plateau; paleomagnetic evidence (Reidel, S. P. 1982)
- Cenozoic geology and geologic history of western Oregon (Niem, A. R. 1984)
- Cenozoic plate motions and the volcano-tectonic evolution of western Oregon and Washington (Wells, R. E. 1982)
- Cenozoic plate reconstruction (Duncan, R. 1984)
- Cross sections E-E', F-F', and G-G'; western Oregon (Niem, A. R. 1984)
- Evidence for the subducting lithosphere under southern Vancouver Island and western Oregon from teleseismic P wave conversions (Langston, Charles A. 1981)
- Geology of the continental margin near Florence, Oregon (Couch, Richard William. 1980)
- Glauconophaneschist belts of the Pacific framework (Dobretsov, N. L. 1979)
- Has the Washington-Oregon Coast Range moved northward? (Beck, Myrl E., Jr. 1984)
- In Pacific NW subduction active, decaying or incipient? The 2-m geoid (Bostrom, R. C. 1984)
- Inclined sheeted dikes and discordant igneous layering in the Josephine Ophiolite; evidence for large-scale rotations at spreading centers (Harper, G. D. 1980)
- Jurassic ophiolite belt of western North America; age relationships and their tectonic implications (Mattinson, James M. 1980)
- Kinematics of plate convergence deduced from Mesozoic structures in the Western Cordillera (Oldow, J. S. 1982)
- Late Cenozoic deformation and volcanism in the Blue Mountains of central Oregon; microplate interactions? (Robyn, Thomas L. 1982)
- Late Mesozoic tectonostratigraphic terranes (microplates) in southwest Oregon (Blake, M. C. 1980)
- Massive sulfide deposits in oceanic-crust and island-arc terranes of southwestern Oregon (Koski, Randolph A. 1981)
- Oceanic crustal composition in the Northeast Pacific (Christensen, N. I. 1970)
- Paleomagnetic evidence for tectonic rotation of Jurassic plutons in Blue Mountains, eastern Oregon (Wilson, D. 1980)

- Paleomagnetism and Mesozoic tectonics of the Seven Devils volcanic arc in northeastern Oregon (Hillhouse, John W. 1982)
 - Paleomagnetism of the Upper Cretaceous Hornbrook Formation; implications for tectonic rotation of the Klamath Mountains Province (Schultz, K. L. 1981)
 - Paleozoic and Triassic terranes of the Blue Mountains, northeast Oregon; discussion and field trip guide; Part I; a new consideration of old problems (Mullen, Ellen D. 1983)
 - Petrologic evolution of the Clarno Formation, Oregon (Noblett, J. B. 1980)
 - Plate tectonics and the Tertiary geology of western Oregon and Washington (MacLeod, Norman S. 1971)
 - Punctuated volcanism in Oregon's Coast Range (McElwee, Kristine. 1984)
 - Relation between orogeny, subduction, and changing-plate motion models for the Pacific Coast region of the United States (Blake, M. C., Jr. 1982)
 - Robert Hooke and the foundation of geology; a comparison of Steno and Hooke and the Hooke imprint on the Huttonian theory. The tectonic evolution of the Oregon continental margin; rotation of segment boundaries and possible spacetime relationships in the central High Cascades (Drake, Ellen Tan. 1981)
 - Rotation mechanisms in western Oregon and Washington (Coe, R. S. 1982)
 - Rotation of segment boundaries in Oregon and Washington and possible space-time relationships in the High Cascades (Drake, Ellen T. 1981)
 - Sedimentary record of subduction to forearc transition in the rotated Eocene basin of western Oregon (Heller, Paul L. 1983)
 - Sedimentary response to Eocene tectonic rotation in western Oregon (Heller, Paul Lewis. 1983)
 - Shortening rates, crustal stress, and active subduction in coastal Oregon and Washington (Adams, John. 1981)
 - Sonobuoy refraction study of the crust in the Gorda Basin (Cook, Jeffrey A. 1981)
 - Subduction-related origin of the volcanic rocks of the Eocene Clarno Formation near Cherry Creek, Oregon (Noblett, Jeffrey B. 1981)
 - Tectonic belts of western Oregon; a section of the Klamath Mountains foreland on the Pacific (Roure, F. 1981)
 - Tectonic framework of the Oregon continental margin (Snively, P. D., Jr. 1980)
 - Tectonic rotation and basin development during mid-Tertiary extension in the Pacific Northwest (Heller, Paul L. 1984)
 - Tectonic rotation of the Oregon western Cascades (Magill, James. 1980)
 - Tectonic setting of western North America (Danner, W. R. 1974)
 - Tectonic summary of Leg 18 (von Huene, Roland. 1973)
 - Tectonostratigraphic terranes of southwest Oregon (Blake, M. C., Jr. 1981)
 - The Blue Mountains island arc of Oregon, Idaho, and Washington; an allochthonous coherent terrane from the ancestral western Pacific Ocean? (Vallier, Tracy L. 1983)
 - The late Mesozoic Coast Range orogeny and subsequent collision events in Northern California and southwestern Oregon (Blake, M. C., Jr. 1983)
 - The nature and evolution of the eastern margin of the Seven Devils volcanic arc; a piece of Wrangellia? (Sarewitz, Daniel. 1982)
 - The Nevadan Orogeny; collapse of west-facing island arc/back-arc/remnant arc complex (Harper, G. D. 1983)
 - The structure of the continental margin near Coos Bay, Oregon (Couch, Richard William. 1980)
 - Tillamook Volcanic Series; further evidence for tectonic rotation of the Oregon Coast Range (Magill, James. 1981)
 - U-Pb geochronology of ophiolitic and volcanic-plutonic arc terranes, northeastern Oregon and westernmost-central Idaho (Walker, Nicholas W. 1981)
 - Volcanic episodicity and Tertiary absolute motions in the Pacific Northwest (McElwee, K. R. 1982)
 - Volcanic petrology of the Eocene Clarno Formation on the John Day River near Cherry Creek, Oregon (Noblett, J. B. 1980)
 - Volcanism and geotectonics of the U. S. northwestern continental margin; Oregon and Washington (Loeschke, Joerg. 1980)
 - ^{40}Ar - ^{39}Ar ages of some pre-Tertiary plutonic and metamorphic rocks of eastern Oregon and their geologic relationships (Ave Lallemant, H. G. 1980)
- Tektites** *see also* Meteorites
- Telluric surveys** *see* Earth-current surveys *under* Geophysical surveys
- Tephrochronology** *see under* Geochronology
- Tertiary** *see also under* Geochronology; Stratigraphy; *see also under* Geochronology *under* Pacific Coast; *see also under* Stratigraphy *under* Pacific Coast; Pacific Ocean
- Thermal waters** *see also* Geothermal energy; Hydrogeology; *see also under* Hydrogeology *under* Automatic data processing; Basin and Range Province; Great Basin; Pacific Coast
- Thorium—Abundance**

Graywacke: Provenance of Eocene graywackes of the Flournoy Formation near Agness, Oregon; a geochemical approach (Peterman, Zell E. 1981)

Thorium—Geochemistry

- Lava*: Depletion of incompatible trace elements in successively erupted groups of lavas at Battle Ax Mountain, Cascade Range, Oregon (White, Craig M. 1983)
- Plutonic rocks*: Pre-Tertiary plutonic rocks in the Snake River Canyon, Oregon/Idaho; intrusive roots of a Permo-Triassic arc complex (Walker, Nicholas. 1982)
- Rhyolites*: Silicic volcanism and continental extension; implications for the nature of the crust in the Western U.S. (Wilson, Robert T. 1983)

Thrust faults *see under* Displacements *under* Faults

Titanium—Geochemistry

- Igneous rocks*: Petrology of gabbro and peridotite of the Canyon Mountain Complex, Northeast Oregon (Mullen, Ellen D. 1983)

Trace elements *see under* Geochemistry; *see under* Geochemical methods *under* Mineral exploration; *see under* Geochemistry *under* Basin and Range Province; Columbia Plateau; Igneous rocks; Lava; Magmas; Pacific Coast; Rare earths; Sedimentary rocks; Sediments

Tracks *see under* Morphology *under* Ichnofossils

Triassic *see also under* Stratigraphy

Trilobites—Biogeography

- Paleozoic*: Early Paleozoic Cordilleran biofacies, provinces, and realms (Johnson, J. G. 1983)

Tritium *see also* Deuterium; Hydrogen

Tritium—Geochemistry

- Surface water*: Crater Lake revisited; concentration changes in water column radionuclides, 1967 to 1981 (Volchok, Herbert L. 1983)

Turbidity current structures *see under* Sedimentary structures

Underground water *see* Ground water

United States *see also* the individual states and regions

Uranium *see also under* Economic geology

Uranium—Abundance

- Andesite*: Uranium contents of glassy and devitrified andesites and dacites, Mount Mazama, Oregon (Noble, D. C. 1980)
- Graywacke*: Provenance of Eocene graywackes of the Flournoy Formation near Agness, Oregon; a geochemical approach (Peterman, Zell E. 1981)

Uranium—Geochemistry

- Ground water*: Chemical transport in ground water beneath an inactive uranium mill tailings, Riverton, Wyoming (White, Art F. 1982)
- Plutonic rocks*: Pre-Tertiary plutonic rocks in the Snake River Canyon, Oregon/Idaho; intrusive roots of a Permo-Triassic arc complex (Walker, Nicholas. 1982)
- Rhyolites*: Silicic volcanism and continental extension; implications for the nature of the crust in the Western U.S. (Wilson, Robert T. 1983)

Varves *see* Lacustrine features *under* Geomorphology; *see under* Planar bedding structures *under* Sedimentary structures; *see under* Geochronology

Vertebrata *see also* Amphibia; Ichnofossils; Mammalia; Pisces; Reptilia

Vertebrata—Faunal studies

- Miocene*: Additions to the early Hemphillian (Miocene) Rattlesnake fauna from central Oregon (Martin, James E. 1983)
- Neogene*: Correlation of Hemphillian faunas in the northwest to those on the Great Plains (Martin, James E. 1980)

Vertebrata—Occurrence

- Phanerozoic*: Distribution of Oregon fossils (Orr, William N. 1984)

Vertebrata—Paleoecology

- Oligocene*: Oregon western Cascades Oligocene biofacies (Orr, William N. 1983)

Vertebrates—Biostratigraphy

- Tertiary*: Life during the Deschutes time (Gamer, Robert L. 1983)

Volcanic features *see under* Geomorphology

Volcanism *see under* Volcanology

Volcanoes *see under* Volcanology

Volcanology

- Mount Hood*: Geochemical studies of rocks, water, and gases at Mt. Hood, Oregon (Wollenberg, Harold A. 1979)
- Geology and geochemistry of Mt. Hood Volcano (White, Craig. 1980)
- Mt. Hood, Portland's own volcano (Gamer, Robert L. 1982)
- Mount Jefferson*: Evidence of Pleistocene explosive eruptions of Mount Jefferson, Oregon (Beget, James E. 1981)
- Pleistocene pyroclastic deposits from eruptions of Mount Jefferson, Oregon (Beget, James E. 1982)
- Mount Mazama*: Complementary crystal fractionation and magma mixing at Mt. Mazama; Crater Lake (Leeman, W. P. 1980)
- Paleomagnetic "dating" of Holocene volcanic activity at Mount Mazama, Crater Lake, Oregon (Champion, Duane E. 1983)
- The precursory and climactic eruptions of Mount Mazama and collapse of Crater Lake Caldera, Oregon (Bacon, Charles R. 1983)
- Mount Saint Helens*: Mount St. Helens volcanic-ash fall in the Bull Run Watershed, Oregon, March-June 1980 (Shulters, M. V. 1981)
- Newberry*: Distribution of volcanic vents (Black, Gerald L. 1983)
- Research*: Seismic monitoring, Oregon and California volcanoes (Iyer, H. M. 1983)
- South Sister*: Late Holocene eruptions, South Sister Volcano, Oregon (Scott, W. E. 1983)
- Late Pleistocene summit construction and Holocene flank eruptions of South Sister Volcano, Oregon (Wozniak, K. C. 1981)

Volcanology—Methods

Geochronology: Obsidian hydration dating of volcanic events (Friedman, Irving. 1981)

Volcanology—Symposia

Volcanic zones: Cascade Range could produce thermal energy as well as volcanoes (U. S. Geological Survey. 1980)

Volcanology—Volcanism

Acidic composition: Silicic volcanism and continental extension; implications for the nature of the crust in the Western U.S. (Wilson, Robert T. 1983)

Age: An important lower Oligocene welded-tuff marker bed in the western Cascade Range of southern Oregon (Smith, J. G. 1980)

Ash flows: Cooling units and composite sheets in relation to caldera structure (Christiansen, R. L. 1979)

Basalts: Contrasting styles of basaltic volcanism; Chilcotin (British Columbia) and Columbia River Basalt Groups (Bevier, Mary Lou. 1983)

Base surges: Base surge deposits in the western Cascades, Oregon (McDonough, W. F. 1980)

Calderas: Geology of the Whitehorse Caldera and caldera-fill deposits, Malheur County, Oregon (Rytuba, J. J. 1981)

— Peralkaline ash flow tuffs and calderas of the McDermitt volcanic field, southeast Oregon and north-central Nevada (Rytuba, James J. 1984)

— The mineralogy and petrology of compositionally zoned ash flow tuffs, and related silicic volcanic rocks, from the McDermitt Caldera complex, Nevada-Oregon (Conrad, Walter K. 1984)

— Welded tuffs deformed into megareomorphic folds during collapse of the McDermitt Caldera, Nevada-Oregon (Hargrove, Howard R. 1984)

Causes: Cenozoic plate motions and the volcano-tectonic evolution of western Oregon and Washington (Wells, R. E. 1982)

— Involvement of deep crust in extension of Basin and Range Province (Thompson, George A. 1983)

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— Review of Late Cenozoic tectonics, volcanism, and subsurface geology of the western Snake River plain, Idaho (Wood, Spencer H. 1984)

Changes: The role of Tertiary volcanism in the modernization of terrestrial communities in the Pacific Northwest (Taggart, Ralph E. 1984)

Cinder cones: The geology and petrology of Three Fingered Jack, a High Cascade volcano in central Oregon (Davie, Ellen Ingraham, II. 1981)

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Ax Mountain, Cascade Range, Oregon (White, Craig M. 1983)

— Effects of periodic volcanism on Miocene vegetation distribution in eastern Oregon and western Idaho (Taggart, Ralph E. 1982)

— Energy-dispersive X-ray fluorescence analysis as a rapid method for identifying tephra (Cormie, A. B. 1983)

— Fire & Ice; the Cascade volcanoes (Harris, Stephen L. 1980)

— Geology and hydrothermal alteration, Glass Buttes, southeast Oregon (Berri, Dulcy Annette. 1982)

— Geology and petrology of Gearhart Mountain; a study of calc-alkaline volcanism east of the Cascades in Oregon (Brikowski, Tom Harry. 1983)

— Geology of the northern part of the southeast Three Sisters quadrangle, Oregon (Wozniak, Karl C. 1982)

— Hydrogen isotope fractionation during degassing of rhyolitic magma (Taylor, B. E. 1983)

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— Petrogenesis of divergent magmas at South Sister Volcano, High Cascade Range, Oregon (Clark, James G. 1983)

— Punctuated volcanism in Oregon's Coast Range (McElwee, Kristine. 1984)

— Rotation of segment boundaries in Oregon and Washington and possible space-time relationships in the High Cascades (Drake, Ellen T. 1981)

— The geology of Cascade Head, an Eocene volcanic center (Barnes, Melanie Ames Weed. 1981)

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— The petrography, structure, and stratigraphy of Powell Buttes, Crook County, central Oregon (Weidenheim, J. Peter. 1980)

— The precursory and climatic eruptions of Mount Mazama and collapse of Crater Lake Caldera, Oregon (Bacon, Charles R. 1983)

— Thermal infrared imagery of the Cascade Range volcanics (Ginsberg, I. William. 1982)

— Volcanism and structure in the vicinity of Echo Mountain, central Oregon Cascade Range (Avramenko, Walter. 1981)

— Why do volcanoes erupt? (Allen, John Eliot. 1981)

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— Heat flow, arc volcanism, and subduction in northern Oregon (Blackwell, David D. 1982)

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— Petrologic evolution of the Clarno Formation, Oregon (Noblett, J. B. 1980)

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Genesis: Geology and petrogenesis of Gearhart Mountain, an andesitic volcano in the Basin and Range Province of Oregon (Brikowski, Tom H. 1983)

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Infrared surveys: Thermal-infrared surveys, Cascades volcanoes (Kieffer, Hugh. 1983)

Lava: Petrology of Diamond Craters; south-eastern Oregon (Russell, James K. 1982)

Miocene: A geologic study of Three Fingers Rock, Owyhee region, Malheur County, Oregon (Imada, Brian T. 1980)

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Periodicity: Areal distribution and age of low-K, high-alumina olivine tholeiite magmatism in the northwestern Great Basin (Hart, William K. 1984)

— Geology and petrology of the Yamsay Mountain Complex, south-central Oregon; a study of bimodal volcanism (Hering, Carl William. 1981)

— Late Cenozoic deformation and volcanism in the Blue Mountains of central Oregon; microplate interactions? (Robyn, Thomas L. 1982)

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— Volcanic episodicity and Tertiary absolute motions in the Pacific Northwest (McElwee, K. R. 1982)

Plate tectonics: The Cascade Province (McBirney, A. R. 1982)

Pleistocene: Pleistocene interglacial volcanism; upper Salmon Creek drainage, Lane County, Oregon (Long, Michael T. 1984)

Processes: The Cascade volcanoes; comparison of geologic and historic records (Kiver, Eugene P. 1982)

Pyroclastic flows: The climatic eruption of Mount Mazama, Oregon (Bacon, C. R. 1980)

Subduction zones: Volcanic petrology of the Eocene Clarno Forma-

tion on the John Day River near Cherry Creek, Oregon (Noblett, J. B. 1980)

Vents: Columbia River Basalt Group; vent systems in Oregon (Robinson, P. T. 1981)

— Drake Peak; a structurally complex rhyolite center in southeastern Oregon (Wells, R. E. 1980)

— Map showing distribution, composition, and age of late Cenozoic volcanic centers in Oregon and Washington (Luedke, R. G. 1982)

— The John Day Formation of Oregon; a record of early Cascade volcanism (Robinson, Paul T. 1980)

Volcanic centers: Areal distribution and concentration of late Cenozoic volcanic centers in the Cascade Range (Hammond, Paul E. 1980)

Volcanoes: Aerial infrared mapping of thermal activity at Cascade Range volcanoes (Friedman, Jules D. 1981)

— Map showing distribution, composition, and age of late Cenozoic volcanoes and volcanic rocks of the Cascade Range and vicinity, northwestern United States (Luedke, R. G. 1983)

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Goble Volcanics

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