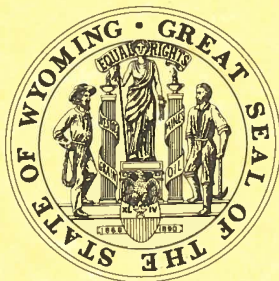


**WYOMING STATE GEOLOGICAL SURVEY**  
**Gary B. Glass, State Geologist**

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compiled by

**Cynthia S. Boyd and Alan J. Ver Ploeg**



**Information Pamphlet 3**

**LARAMIE, WYOMING  
1995**

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## INTRODUCTION

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## AUTHORS AND TITLES

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- ABRAMS, D.C.** - 1897 - Ilmenite beds in southeastern Wyoming.
- ADAMS, P.R.** - 1972 - Foraminiferal biostratigraphy and paleoecology of the Hilliard Formation type area, Lincoln County, Wyoming.
- ADLER, K.R.** - 1982 - Source rock analysis of oil shale in the Green River Formation, Bridger Basin, Wyoming.
- AGUADO, B.** - 1991 - The B-3X-040 Reservoir, Lake Maracaibo Basin, western Venezuela: diagenesis and reservoir heterogeneity.
- AHLBRANDT, T.S.** - 1973 - PhD - Sand dunes, geomorphology, and geology, Killpecker Creek area, northern Sweetwater County, Wyoming.
- \* **ALBANESE, J.P.** - 1949 - A petrographic and structural study of a peridotite body in the Laramie Mountains, Wyoming.
- \* **ALLSPACH, H.G.** - 1955 - Geology of a part of the south flank of the Seminoe Mountains, Carbon County, Wyoming
- AMOS, J.F.** - 1991 - Spectral stratigraphy of the upper Wind River and lower Wagon Bed Formations, Oil Mountain area, Fremont County, Wyoming.
- \* **ANDERSON, J.E.** - 1967 - Stratigraphy and depositional environments of part of the Cretaceous Mesaverde Formation, north of Sinclair, Wyoming.
- ANDERSON, V.H.** - 1959 - Glaciological observations in Marie Byrd Land, Antarctica.
- ANDERSSON, K.A.** - 1978 - Early lithification of limestones in the Red Water Shale Member of the Sundance Formation (Jurassic) of southeastern Wyoming.
- ANDERSSON, K.A.** - 1982 - PhD - Permian trace fossils of western Wyoming and southwestern Montana: systematics, paleoenvironments and diagenesis.
- \* **ANDRAU, W.E.** - 1958 - Geology of the West Pine Creek area, Bonneville County, Idaho.
- ANTWEILER, R.C.** - 1981 - PhD - The chemistry of weathering of a Pliocene volcanic ash: field and laboratory studies.
- \* **ARY, M.D.** - 1959 - Geology of the eastern part of the Thermopolis and Lucerne anticlines, Hot Springs County, Wyoming.
- ASHLEY, W.H.** - 1948 - Geology of the Kennaday Peak-Pennock Mountain area, Carbon County, Wyoming.
- ATHERTON, C.C.** - 1972 - Planktonic foraminiferal biostratigraphy of the Niobrara Formation, Centennial Valley, Albany County, Wyoming.
- BABITS, S.J.** - 1987 - Gravity anomalies and lithospheric flexure beneath the Denver Basin: evidence for a buoyant subcrustal load.
- \* **BADGLEY, E.K., Jr.** - 1953 - Correlation of some Late Cretaceous-early Tertiary sediments in eastern Montana.

- BAKER, F.B.** - 1993 - Deformation across the San Andreas Fault near Parkfield, California.
- BAKER, G.K.** - 1965 - An environmental study of the Morrison Formation, Freezeout Hills-Como Bluff area, Carbon County, Wyoming.
- BAKER, K.H.** - 1976 - Heat flow studies in Colorado and Wyoming.
- BALCELLS, R.** - 1978 - Stratigraphy, age, and paleoecology of benthonic foraminifera from the type Kevin shale member, Marias River Formation, northwestern Montana.
- BALDWIN, E.A.** - 1976 - Paleocology of benthonic foraminifera from the Fort Hays member, Niobrara Formation, west-central Kansas.
- BALDWIN, H.T.** - 1935 - The genesis of the sediments of Wind River age in the Laramie Basin.
- BALSAM, R.C.** - 1986 - Geology and geophysics of the South Pass area, Fremont County, Wyoming.
- BANKS, C.E.** - 1970 - Precambrian gneiss at Sheephead Mountain, Carbon County, Wyoming, and its relationship to Laramide structure.
- \* **BARLOW, J.A., Jr.** - 1950 - Geology of the La Prele Creek-Boxelder Creek area, Converse County, Wyoming.
- BARLOW, J.A., Jr.** - 1953 - PhD - The geology of the Rawlins uplift, Carbon County, Wyoming.
- BARNES, W.C.** - 1958 - Geology of the North Park syncline area, Jackson County, Colorado.
- \* **BARNWELL, W.W.** - 1955 - The geology of the south Hahns Peak district.
- BARRETT, R.A.** - 1987 - The maturation of the Chainman Shale in Railroad Valley, Nye County, Nevada.
- BARRON, A.M.** - 1982 - The effects of thermal cycling on the magnetic properties of Lunar analogs.
- \* **BARTON, R.** - 1974 - Geology of the Kennaday Peak-Pennock Mountain area, Carbon County, Wyoming.
- \* **BARWIN, J.R.** - 1961 - Stratigraphy of the Mesaverde Formation in the southeastern part of the Wind River Basin, Fremont and Natrona Counties, Wyoming.
- \* **BASKO, D.B.** - 1954 - Stratigraphy of the Phosphoria Formation of northern Carbon County, Wyoming.
- BATT, R.** - 1981 - Foraminiferal biostratigraphy and marine paleoecology of the Frontier Formation, southwestern Wyoming.
- \* **BAUER, E.J.** - 1952 - Geology of the Wagonhound Creek area, Carbon County, Wyoming.
- BAY, K.W.** - 1969 - PhD - Stratigraphy of Eocene sedimentary rocks in the Lysite Mountain area, Hot Springs, Fremont, and Washakie Counties, Wyoming.
- BEATTY, C.A.** - 1985 - Foraminiferal evidence for the development of anoxic conditions, Niobrara Formation (Upper Cretaceous), Boulder, Colorado, with paleoceanographic implications for the western interior seaway.

- \* **BECK, F.M.** - 1959 - Geology of the Sphinx Mountain area, Madison and Gallatin Counties, Montana.
- \* **BEKKAR, H.** - 1973 - Laramide structural elements and relationship to Precambrian basement, southeastern Wyoming.
- BELL, L.H.** - 1968 - Stratigraphy and depositional history of the Cambrian Flathead Sandstone, northern Park County, Wyoming.
- \* **BELL, W.G.** - 1955 - PhD - The geology of the southeastern flank of the Wind River Mountains, Fremont County, Wyoming.
- BENAÏSSA, S.** - 1977 - Geologic factors influencing oil and gas accumulation, southeast flank Rock Springs uplift, Sweetwater County, Wyoming.
- \* **BENEDICT, J.F.** - 1982 - The geology and mineral potential of the Schiestler Peak area, Temple Peak Quadrangle, Wyoming.
- \* **BENNIRAN, M.M.** - 1970 - Casper Formation limestones, southwestern Laramie Mountains, Albany County, Wyoming.
- BERG, R.M.** - 1988 - Processing and interpretation of a seismic line across the resurgent dome of Long Valley caldera, California.
- BERG, W.R.** - 1980 - Subsidence due to underground mining in the Hanna Coal Field, Carbon County, Wyoming.
- BERGSTRESSER, T.J.** - 1978 - Planktonic foraminifera from the lower part of the Niobrara Formation, LaPorte, Colorado.
- BERGSTRESSER, T.J.** - 1981 - PhD - Foraminiferal biostratigraphy and paleobathymetry of the Pierre Shale, Colorado, Kansas, and Wyoming.
- \* **BERGSTROM, J.R.** - 1950 - Geology of the east portion of Casper Mountain and vicinity.
- BERGSTROM, J.R.** - 1954 - PhD - The stratigraphy of the Mesaverde Formation of southeastern Wyoming.
- \* **BERMAN, J.E.** - 1955 - Geology of the Elk Mountain and Tabernacle Butte area, Sublette County, Wyoming.
- BERNASKI, G.E.** - 1985 - Laramide deformation in the southeast Uinta Mountains, Colorado and Utah.
- \* **BERRY, R.M.** - 1950 - Tertiary stratigraphy of the Bates Hole-Alcova region, central Wyoming.
- \* **BERRYMAN, R.J.** - 1942 - The geology of the Deer Creek-Little Deer Creek area, Converse County, Wyoming.
- BERRYMAN, W.M.** - 1973 - Lithology and environment of deposition of Pliocene rocks cored at Elk Hills, Kern County, California.
- \* **BERTAGNOLLI, A.J., Jr.** - 1940 - Geology of the southern part of the La Barge Ridge, Lincoln County, Wyoming.
- \* **BICKFORD, F.E.** - 1977 - Petrology and structure of the Barlow Gap area, Wyoming.

- BIEREI, M.A.** - 1987 - Hydrocarbon maturation, source rock potential, and thermal evolution of the Late Cretaceous and early Tertiary rocks of the Hanna Basin, southeast Wyoming.
- \* **BIGGS, C.A.** - 1951 - Stratigraphy of the Amsden Formation of the Wind River Range and adjacent areas in northwestern Wyoming.
- BISHOP, D.T.** - 1964 - Retrogressive metamorphism in the Seminoe Mountains, Carbon County, Wyoming.
- BLACK, P.R.** - 1974 - A quantitative test of a subduction model for observed heat-flow distributions in the western United States.
- BLACK, R.A.** - 1990 - PhD - Seismic imaging in Long Valley, California, caldera using generalized cellular migration.
- BLACKSTONE, R.E.** - 1976 - Contact relationships of Laramie anorthosite and associated rocks, Poe Mountain area, Albany County, Wyoming.
- BLAIR, K.P.** - 1984 - Structural analysis of the Paired Ridges syncline, Montgomery County, Arkansas.
- BLANCHARD, M.R.** - 1990 - PhD - Discrimination between flow-through and pulse-through components of an Alpine carbonate aquifer, Salt River Range, Wyoming.
- BLAND, D.M.** - 1982 - Geology and structure of Pocatello Range, Bannock County, Idaho.
- \* **BLEVINS, D.M., Jr.** - 1984 - Computer assisted structural analysis of the western termination of the Flat Top anticline, Carbon County, Wyoming.
- BLUM, A.** - 1984 - Chemical weathering and controls on the chemistry of infiltrating solutions in a forested watershed, Medicine Bow Mountains, Wyoming.
- BLUNDELL, J.S.** - 1988 - Structural trends of Precambrian rocks, Sheep Ridge anticline, western Owl Creek Mountains, Wyoming.
- \* **BOCHENSKY, P.** - 1982 - Contact metamorphism effects of the Laramie anorthosite complex at Morton Pass, Wyoming.
- \* **BOGGETT, J.W.** - 1951 - Geology of the northwestern end of the Rattlesnake Hills, Natrona County, Wyoming.
- BOHN, D.** - 1990 - PhD - Laramide shortening and Neogene extension superposed on a Precambrian structural grain near Little Basin, Seminoe and Shirley Mountains, Carbon County, Wyoming.
- \* **BOLES, J.R.** - 1968 - Zeolites and authigenic feldspar along a part of the Beaver Rim, Fremont County, Wyoming.
- BOODOO, W.** - 1976 - A sand development study of the lower member of the late Miocene, Morné l'Enfer Formation, south of the Los Bajos fault, Trinidad, W.I.
- \* **BOTHNER, W.A., Jr.** - 1967 - PhD - Petrology, structural geometry, and economic geology of the Cooney Hills, Platte County, Wyoming.
- BOTTJER, R.J.** - 1984 - Depositional environments and tectonic significance of the South Pass Formation, southern Wind River Range, Wyoming.



- BOUNDY, T.M.** - 1990 - PhD - Structural development and petrofacies of eclogite facies shear zones in a granulite anorthosite complex, Holsnoy Island, Bergen Arcs, western Norway: implications for crustal deformational processes.
- BOWDLER, S.S.** - 1989 - Age and micropaleontology of the Gannett Group of southeastern Idaho and western Wyoming.
- BOWERS, N.E.** - 1993 - Tectonic evolution of the eastern Ferris and Bear Mountains, Carbon County, Wyoming.
- BOWN, T.M.** - 1977 - PhD - Geology and mammalian paleontology of the Sand Creek facies, lower Willwood Formation (early Eocene) Washakie County, Wyoming.
- BOYD, N.G.K., III** - 1994 - PhD - Crustal structure of the Archean Minnesota River Valley Subprovince, Superior Province, from seismic data.
- \* **BOZANIC, D.** - 1952 - A subsurface study of the Muddy Sandstone in the northern part of the Julesburg Basin, Wyoming, Colorado, and Nebraska.
- BRADFORD, C.E.** - 1934 - Structure of the southern part of Sheep Mountain, Albany County, Wyoming.
- \* **BRADY, R.T.** - 1949 - Geology of the east flank of the Laramie Range in the vicinity of Federal and Hecla, Laramie County, Wyoming.
- \* **BRAGDON, F.F.** - 1965 - Geology of the Fish Spring Creek and adjacent area, Lincoln and Sublette Counties, Wyoming.
- BRAIN, T.H.** - 1993 - Facies analysis and depositional environments of the Late Cretaceous (Campanian) Hatfield Sandstone Member of the Haystack Mountains Formation, Rawlins, Wyoming.
- BRANCH, C.N.** - 1985 - Re-analysis and modeling of COCORP's Sevier Desert Line 1: implications for models of Cenozoic extension in west-central Utah.
- \* **BRECKENRIDGE, R.M.** - 1969 - Neoglacal geology of Upper Fall Creek Basin, Mummy Range, Colorado.
- \* **BRECKENRIDGE, R.M.** - 1974 - PhD - Quaternary and environmental geomorphology of the upper Wood River area, Absaroka Range, Wyoming.
- BREITHAUPT, B.H.** - 1981 - Paleontology and paleoecology of Lance equivalent strata, east flank of Sweetwater County, Wyoming.
- \* **BROOKS, B.G.** - 1957 - The geology of the Wheatland Reservoir area, Albany County, Wyoming.
- \* **BROOKS, K.J.** - 1977 - Petrology and depositional environments of the Hanna Formation in the Carbon Basin, Carbon County, Wyoming.
- BROWN, A.Y.** - 1986 - Reprocessing and interpretation of USGS Tennessee - North Carolina seismic reflection lines 3 and 5.
- \* **BROWN, O.P.** - 1939 - The geology of the Difficulty-Little Shirley Basin area, Carbon County, Wyoming.
- \* **BROWN, P.L.** - 1950 - Occurrence and origin of the known trona deposits in Sweetwater and Uinta Counties, Wyoming.

- BRUCE, B.W.** - 1993 - Hydrochemistry of the Wasatch/Green River aquifer system, northeastern Green River Basin, Wyoming.
- BUCHER, G.J.** - 1980 - Heat flow and radioactivity studies in the Ross Island - Dry Valley area, Antarctica and their tectonic implications.
- BUCHHEIM, H.P.** - 1978 - PhD - Paleolimnology of the Laney member of the Eocene Green River Formation.
- \* **BUEHNER, J.H.** - 1936 - Geology of an area north of the Sierra Madre, Carbon County, Wyoming.
- BUELOW, K.L.** - 1980 - Geothermal studies in Wyoming and northern Colorado, with a geophysical model of the southern Rocky Mountains near the Colorado-Wyoming border.
- \* **BUFFETT, R.N.** - 1958 - Geology of the Little Canyon Creek area, Washakie County, Wyoming.
- BULLOCK, J.M.** - 1964 - Gypsum deposits in the northwestern part of the Big Horn [sic] Basin, Park County, Wyoming.
- BURCH, E.** - 1982 - Tensleep Sandstone - diagenetic relation to tilted oil-water contacts in oil fields of the southeast Big Horn [sic] Basin.
- \* **BURK, C.A.** - 1953 - Stratigraphy of the Frontier Formation along the southern margin of the Bighorn Basin, Wyoming.
- BURKE, M.M.** - 1987 - Compressional wave velocities in rocks from the Ivrea-Verbano and Strona-Ceneri Zones, Southern Alps, Northern Italy: implications for models of crustal structure.
- BURNS, B.A.** - 1992 - PhD - The stratigraphic response of alluvial depositional systems to changes in base-level; an example from Ebro Basin of Spain.
- \* **BURRITT, E.C.** - 1962 - A ground-water study of part of the southern Laramie Basin, Albany County, Wyoming.
- CAPARCO, N.J.** - 1989 - Callovian and Oxfordian Foraminifera from the Late Jurassic of northern and western Wyoming.
- CARBONELL, R.** - 1991 - PhD - Reflectivity analysis, scattering and full, wave form inversion in seismic reflection data from the Basin and Range, Nevada.
- \* **CARDINAL, D.F.** - 1958 - Geology of the Crystal Creek-Bald Mountain area, Big Horn and Sheridan Counties, Wyoming.
- \* **CAREY, B.D., Jr.** - 1950 - Geology of the eastern part of Flat Top anticline, Albany and Carbon Counties, Wyoming.
- \* **CAREY, B.D., Jr.** - 1959 - PhD - Geology of the Rattlesnake Hills Tertiary volcanic field, Natrona County, Wyoming.
- CARLISLE, W.J.** - 1979 - Upper Cretaceous stratigraphy, Lincoln and Sublette Counties, Western Wyoming.
- \* **CARLSON, C.E.** - 1949 - Areal geology and stratigraphy of the Red Fork Powder River area, Johnson County, Wyoming.

- \* **CARPENTER, L.C.** - 1951 - Geology of the eastern end of the Ferris Mountains, Carbon County, Wyoming.
- CASSILIANO, M.L.** - 1976 - Stratigraphy and paleontology of the Horse Creek-Trail Creek area, Laramie County, Wyoming.
- \* **CASTRO, E.J.** - 1962 - A subsurface study of the Tipton member of the Green River Formation west of the Rock Springs uplift.
- \* **CATANZARO, E.J.** - 1956 - A preliminary petrographic study of the Lake Owen mafic complex, Albany County, Wyoming.
- CERVENY, P.F., III** - 1990 - PhD - Fission-track thermochronology of the Wind River Range and other basement-cored uplifts in the Rocky Mountain foreland.
- \* **CHADEAYNE, D.K.** - 1966 - The geology of Pass Creek Ridge, Saint Marys, and Cedar Ridge anticlines, Carbon County, Wyoming.
- CHAMBERS, H.P.** - 1988 - A regional ground motion model for historical seismicity along the Rock Creek fault, western Wyoming.
- CHEN, X.** - 1994 - PhD - 1. Finite element transport modeling of biodegradable contaminants in heterogeneous porous media. 2. Geostatistical methods for the study of pressure compartment: a case study in the Hilight oil field, Powder River Basin, Wyoming.
- \* **CHILDERS, M.O.** - 1957 - The geology of the French Creek area, Albany and Carbon Counties, Wyoming.
- CHRONIC, L.M.** - 1988 - The interrelation of fauna and lithology across a Late Cambrian bioterm boundary in Wyoming.
- \* **CLAREY, T.L.** - 1984 - Geologic investigations of the Shirley fault and vicinity, Carbon County, Wyoming.
- CLAUSEN, E.N.** - 1969 - PhD - Piping, slope development, and field sampling studies of Wyoming badlands.
- CLEVEN, G.W.** - 1956 - A statistical analysis of erosion surfaces in the vicinity of Laramie, Wyoming.
- CLOW, D.W.** - 1992 - PhD - Weathering rates from field and laboratory experiments on naturally weathered soils.
- COALSON, E.B.** - 1972 - Geology of the New Rambler Mine area, Albany County, Wyoming.
- CODY, R.D.** - 1962 - Foraminifera from one section of the late Cretaceous Steele Shale, Mesaverde Group, and Lewis Shale, Carbon County, Wyoming.
- COLBURN, R.H.** - 1989 - Alias suppression and inversion of slant stacks from deep crustal refraction data: examples from the Great Valley, California, and the 1986 Nevada Pascal experiment.
- \* **CONARD, J.B.** - 1981 - Geology of the Castle Rock 7.5-minute Quadrangle, Fremont County, Wyoming.
- CONLEY, C.D.** - 1964 - PhD - Petrology of the Leadville Limestone (Mississippian), White River Plateau, Colorado.

- CONSTENIUS, K.N.** - 1981 - Stratigraphy, sedimentation, and tectonic history of the Kishenehn Basin, northwestern Montana.
- COOGAN, J.C.** - 1992 - PhD - Thrust systems and displacement transfer in the Wyoming-Idaho-Utah thrust belt.
- COOK, F.A.** - 1975 - Transient heat flow models and gravity models in the Rio Grande rift of southern New Mexico.
- \* **COOK, W.R., III** - 1976 - Structural geology of the Aspen Tunnel area, Uinta County, Wyoming.
- COOLIDGE, C.N.** - 1978 - Relations between source rock and recent stream mineralogy in Horse Creek Basin, western Wyoming.
- \* **COOPER, H.T.** - 1951 - Geology of the western Seminoe Mountains.
- COPELAND, D.A.** - 1970 - Chemical variation in hornblende syenite from the Red Mountain area, southern Laramie Mountains, Wyoming.
- COPLAND, J.R.** - 1984 - Laramide structural deformation at the interface between the Laramie Range and the Denver-Julesburg Basin, southeastern Wyoming.
- COUGHLAN, J.P.** - 1983 - Depositional environment and diagenesis of the Teapot Sandstone (Upper Cretaceous), Converse and Natrona Counties, Wyoming.
- COZZENS, J.R.** - 1988 - A shear vertical seismic profile in Dawson County, Texas.
- \* **CRAMER, L.W.** - 1962 - A statistical analysis of jointing in the Sheep Mountain-Jelm Mountain area, Albany County, Wyoming.
- CREWS, S.G.** - 1990 - PhD - Structure, syntectonic sedimentation, and stratigraphy of asymmetrical non-marine basins.
- CROSSEY, L.J.** - 1985 - PhD - The origin and role of water soluble organic compounds in clastic diagenetic systems.
- CUNNINGHAM, L.** - 1993 - Surface detection of underground coal burns, Jim Bridger Mine, Sweetwater County, Wyoming.
- \* **CURREY, D.R.** - 1959 - Geology of the Keystone area, Albany County, Wyoming.
- CURRY, W.H.** - 1959 - Stratigraphy and paleogeography of Upper Jurassic and Lower Cretaceous rocks of central Wyoming.
- CUTLER, E.R.** - 1984 - Geology of the upper Green River area between the Gros Ventre and Wind River Mountains, Sublette County, Wyoming.
- DALEY, R.L.** - 1987 - Patterns and controls of skeletal silicification in a Mississippian fauna, northwestern Wyoming.
- DAM, W.L.** - 1984 - The geochemistry of metals in ground waters after in-situ uranium mining.
- DAVIDSON, J.R.** - 1987 - Geology and mammalian paleontology of the Wind River Formation, Laramie Basin, southwestern Wyoming.
- \* **DAVIDSON, P.S.** - 1966 - The stratigraphy of the Upper Cretaceous Lewis Formation of the Laramie and Carbon Basins, Albany and Carbon Counties, Wyoming.

- DAVIS, J.C.** - 1963 - Geology of the Clay Spur bentonite district, Crook and Weston Counties, Wyoming.
- DAVIS, J.C.** - 1967 - PhD - Petrology of the Mowry Shale.
- \* **DAVIS, J.R.** - 1963 - The "Mesaverde" Formation of the Kindt Basin, Carbon County, Wyoming.
- DAVIS, J.R.** - 1966 - PhD - Stratigraphy and depositional history of the upper "Mesaverde" Formation of southeastern Wyoming.
- DAVIS, R.W.** - 1958 - Stratigraphy of the Wasatch Formation, east flank of the Rock Springs uplift, Sweetwater County, Wyoming.
- \* **DEAL, D.E.** - 1962 - Geology of Jewel Cave National Monument, Custer County, South Dakota, with special reference to cavern formation in the Black Hills.
- \* **DEARDORFF, D.L.** - 1959 - Stratigraphy and oil shales of the Green River Formation southwest of the Rock Springs uplift, Wyoming.
- DEEMER, S.J.** - 1985 - Seismic reflection profiling in the Long Valley caldera, California: data acquisition, processing, and interpretation.
- DEISS, A.P.** - 1978 - Planktonic foraminifera from the type area of the Fort Hays member of the Niobrara Formation, west central Kansas.
- \* **DeJARNETT, J.G.** - 1984 - Stratigraphy, sedimentation, corals, and paleogeographic significance of the Mississippian sequence at Mt. Darby, Overthrust Belt, Wyoming.
- DELAND, C.R.** - 1954 - Cambrian stratigraphy and Upper Cambrian trilobites of the southwestern flank of the Wind River Mountains, Wyoming.
- \* **DEL MAURO, G.L.** - 1953 - Geology of Miller Hill and Sage Creek area, Carbon County, Wyoming.
- \* **DEL MONTE, L.** - 1949 - Correlation of the Pennsylvanian and Permian rocks, southeastern Wyoming.
- \* **DENAULT, K.J.** - 1967 - Geology and distribution of copper, lead, and zinc in streams and soil, Broadway Mine area, Carbon County, Wyoming.
- DENGO, G.** - 1946 - Geology of the bentonite deposits near Casper, Natrona County, Wyoming.
- DENIS, J.R.** - 1982 - The location and origin of uranium deposits in the Cutler Formation in the Lisbon Valley anticline, southeastern Utah.
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- DIAMOND, J.L.** - 1989 - Mineralogical controls on rock magnetism in the Sierra San Pedro Martin Pluton, Baja California, Mexico.
- \* **DICKEY, M.L.** - 1962 - Upper Cretaceous and Cenozoic history of the Green Mountain-Whiskey Peak area, Fremont County, Wyoming.
- DIEHL, J.F.** - 1977 - PhD - Paleomagnetic studies of the Casper Formation of southeastern Wyoming and the Ingelside Formation of northern Colorado.

- DIEHL, S.B.** - 1977 - PhD - The paleomagnetism of the Mississippian Madison Limestone, north-central Wyoming.
- DIEMER, R.A.** - 1940 - Titaniferous magnetite deposits of the Laramie Range, Wyoming.
- \* **DIMITROFF, P.B.** - 1968 - Structural geology of Foote Creek anticline and adjacent area, Carbon and Albany Counties, Wyoming.
- \* **DOCKERY, W.L.** - 1939 - Underground water resources of Horse Creek and Bear Creek valleys, southeastern Wyoming.
- DOEHRING, D.O.** - 1968 - PhD - A procedure for discriminating between pediments and alluvial fans from topographic maps.
- DOELGER, N.M.** - 1981 - Depositional environments of the Nugget Sandstone, Red Canyon Rim, Fremont County, Wyoming.
- DONOVAN, R.C.** - 1986 - Taphonomy of the *Meekoceras* beds, Thaynes Formation (lower Triassic), Idaho, Utah, and Nevada.
- \* **DOREMUS, D.M.** - 1986 - Groundwater circulation and water quality associated with the Madison aquifer, northeastern Bighorn Basin, Wyoming.
- \* **DREIER, J.E.** - 1967 - Economic geology of the Sunlight mineralized region, Park County, Wyoming.
- \* **DRESSER, H.W.** - 1959 - PhD - A field study of the Jurassic "Lower Sundance" beds in southeastern Wyoming.
- DRING, N.B.** - 1977 - Planktonic foraminifera from the Smoky Hill member of the Niobrara Formation, west central Kansas.
- \* **DRWENSKI, V.R.** - 1952 - Geology of the Boxelder-Mormon Canyon area, Converse County, Wyoming.
- DUDLEY, J.L.** - 1984 - Laramide folding and post-Laramide faulting in the Little Canyon Creek area, southeastern Bighorn Basin, Washakie County, Wyoming.
- \* **DUEBENDORFER, E.M.** - 1986 - PhD - Structure, metamorphism, and kinematic history of the Cheyenne belt, Medicine Bow Mountains, southeastern Wyoming.
- DUHLING, W.H.** - 1969 - Oxide facies iron formation in the Owl Creek Mountains, northeastern Fremont County, Wyoming.
- \* **DUNBAR, R.O.** - 1942 - The geology of Como Bluff anticline, Albany-Carbon Counties, Wyoming.
- DUNN, T.L.** - 1979 - Mineral reactions in sandstones of the Lysite Mountain area, central Wyoming.
- DUNN, T.L.** - 1992 - PhD - Post-depositional effects of reservoir heterogeneity in the Comodoro Rivadavia Formation, San Jorge Basin, Argentina.
- DUNNEWALD, J.B.** - 1958 - Geology of the Fish Lake Mountain area, Fremont County, Wyoming.
- \* **DUNRUD, C.R.** - 1962 - Volcanic rocks of the Jack Creek area, southeastern Absaroka Range, Park County, Wyoming.

- DURKEE, E.F.** - 1953 - Cambrian stratigraphy and paleontology of the east flank Bighorn Mountains, Johnson and Sheridan Counties, Wyoming.
- EARLE, J.L.** - 1977 - A study of the tectonics of Wyoming and adjacent areas using photo linear elements mapped from LANDSAT-1 and Skylab imagery.
- EASLEY, D.H.** - 1987 - Ground-water modeling using geostatistical simulation.
- EASLEY, D.H.** - 1989 - PhD - Applications of frequency-domain conditional simulation to geohydrology and geophysics.
- \* **EATON, G.M.** - 1960 - Geology of the central portion of Como Bluff anticline, Albany County, Wyoming.
- EATON, J.G.** - 1982 - Paleontology and correlation of Eocene volcanic rocks in the Carter Mountain area, Park County, southeastern Absaroka Range, Wyoming.
- \* **EBBETT, B.** - 1956 - Structure and petrology of the metasedimentary rocks of the Good Fortune mining area, Platte County, Wyoming.
- EBENS, R.J.** - 1963 - Petrography of the Eocene Tower sandstone lenses at Green River, Sweetwater County, Wyoming.
- EBENS, R.J.** - 1966 - PhD - Stratigraphy and petrography of Miocene volcanic sedimentary rocks in southeastern Wyoming and north central Colorado.
- EDMAN, J.D.** - 1982 - PhD - Diagenetic history of the Phosphoria, Tensleep, and Madison Formations, Tip Top Field, Wyoming.
- \* **EDWARDS, A.R.** - 1939 - Underground water resources of Chugwater Creek, Laramie River, and North Laramie River valleys, Wyoming.
- EDWARDS, B.R.** - 1993 - A field, geochemical, and isotopic investigation of the igneous rocks in the Pole Mountain area of the Sherman batholith, southern Laramie Mountains, Wyoming, U.S.A.
- \* **ELIAS, D.W.** - 1957 - Geology of the Spring Creek area, Moffat County, Colorado.
- ELLERBY, R.S.** - 1962 - Geology of the Dry Creek-Willow Creek area, Fremont County, Wyoming.
- \* **EPSTEIN, J.B.** - 1958 - Geology of part of the Fanny Peak Quadrangle, Wyoming-South Dakota.
- \* **ESPACH, R.H., Jr.** - 1957 - Geology of the Mahogany Ridge area, Big Hole Mountains, Teton County, Idaho.
- ESPENSCHIED, E.K.** - 1957 - Stratigraphy of the Cloverly Formation, Thermopolis Shale, and the Muddy Sandstone around Hanna Basin, Carbon County, Wyoming.
- EVANOFF, E.** - 1990 - PhD - Late Eocene and early Oligocene paleoclimates as indicated by the sedimentology and nonmarine gastropods of the White River Formation near Douglas, Wyoming.
- FAUCETTE, R.C.** - 1994 - Geostatistical and mathematical techniques for modeling geologic heterogeneity and anisotropy.
- \* **FAULKNER, G.L.** - 1950 - Geology of the Bessemer Mountain-Oil Mountain area, Natrona County, Wyoming.

- FENTON, M.D.** - 1965 - The geology of parts of Mad Creek, Clark, and Floyd Peak Quadrangles, Routt County, Colorado.
- \* **FERREN, J.E.** - 1935 - The geology of the southeastern part of the Shirley Mountains, Carbon County, Wyoming.
- \* **FERRIS, C.S., Jr.** - 1964 - PhD - Petrology and structure of the Precambrian rocks southeast of Encampment, Wyoming.
- \* **FIELDS, E.D.** - 1963 - Precambrian rocks of the Halleck Canyon area, Albany County, Wyoming.
- FIERO, G.W., Jr.** - 1958 - Geology of Upheaval Dome, San Juan County, Utah.
- FIKI, M.H.** - 1978 - One-dimensional seismic modeling of Tertiary uranium deposits in the Powder River Basin, Wyoming.
- FIKKAN, P.R.** - 1969 - Granitic rocks in the Dry Valley region of South Victoria Land, Antarctica.
- FINLEY, A.K.** - 1992 - A study of the architecture, heterogeneity, and interrelationships of the storm wave dominated delta front and pro-delta facies of the Rock Springs and Blair Formations, Rock Springs, Wyoming.
- FINLEY, J.B., Jr.** - 1992 - PhD - Surface and ground water hydrochemistry in a snowmelt dominated catchment, Snowy Range, Wyoming.
- \* **FINNELL, T.L.** - 1951 - Structural relationships of the Seminoe-Shirley syncline, Carbon County, Wyoming.
- FISCHER, K.J.** - 1986 - Diagenesis and mass transfer in an Upper Miocene source/reservoir system, southern San Joaquin Basin, California.
- FISHER, F.S.** - 1966 - PhD - Tertiary intrusive rocks and mineralization in the Stinkingwater mining region, Park County, Wyoming.
- FLANAGAN, K.M.** - 1990 - PhD - Late Cenozoic geology of the Pathfinder region, central Wyoming, with tectonic implications for adjacent areas.
- \* **FLANAGAN, P.E.** - 1955 - Geology of the Mud Creek area, Hot Springs County, Wyoming.
- FLURKEY, A.J.** - 1983 - PhD - Depositional environment and petrology of the Medicine Peak Quartzite (Early Proterozoic), southern Wyoming.
- \* **FOOTE, M.W.** - 1986 - PhD - Contact metamorphism and skarn development of the precious and base metal deposits at Silver Star, Madison County, Montana.
- FOX, J.E.** - 1971 - PhD - Invertebrate fossils and environments of the Fox Hills and Medicine Bow Formations (Late Cretaceous) in south-central Wyoming.
- FREDRICKSON, J.A.** - 1978 - Petrology and depositional environments of the Fountain and Ingleside Formations, Owl Canyon, Colorado.
- \* **FRENCH, J.J.** - 1959 - The Goose Egg Formation in the southern portion of the Bighorn Mountains, Wyoming.
- \* **FREY, D.M.** - 1959 - Geology of the Hunt Mountain-Red Gulch area, Big Horn and Sheridan Counties, Wyoming.



- \* **FROIDEVAUX, C.M.** - 1968 - Geology of the Hoback Peak area in the Overthrust Belt, Lincoln and Sublette Counties, Wyoming.
- FROMAN, N.L.** - 1976 - Petroleum exploration using LANDSAT imagery.
- \* **FRUCHEY, R.A.** - 1962 - Overthrusting in Mt. Thompson and adjacent areas, Sublette and Lincoln Counties, Wyoming.
- \* **FULKERSON, D.H.** - 1951 - Geology of a part of the west flank of the Bighorn Mountains north of Big Trails, Washakie County, Wyoming.
- FULLER, B.N.** - 1987 - Seismic reflection data acquisition problems in the Columbia River Plateau and Snake River Plain.
- FULLER, B.N.** - 1988 - PhD - Seismic detection of Upper Cretaceous stratigraphic oil traps in the Powder River Basin, Wyoming.
- \* **FURER, L.C.** - 1962 - Overthrusting in the Thompson Pass area, Lincoln and Sublette Counties, Wyoming.
- \* **GALEY, J.T.** - 1971 - Mineralization in the Eagle Creek area, Park County, Wyoming.
- GARCÍA-GONZÁLES, M.** - 1991 - Hydrocarbon maturation and clay diagenesis in the Tolu area, northwestern Colombia.
- GARCÍA-GONZÁLES, M.** - 1993 - PhD - Coal as a source rock of petroleum and gas, a comparison between natural and artificial maturation by organic petrology and geochemistry: example from the Almond Formation coals: Greater Green River Basin, Wyoming.
- GARDNER, H.J.** - 1964 - The Alcova limestone member (Triassic) of the Chugwater Formation, Freezeout Mountains, Wyoming.
- GASKILL, C.H.** - 1977 - Planktonic foraminifera from the Niobrara Formation, Fort Randall dam core, Fort Randall Dam, South Dakota.
- GAYLORD, D.R.** - 1981 - Stratigraphic and sedimentary controls on uranium mineralization in sandstones-with an example from the Highland Mine, Converse County, Wyoming.
- GAYLORD, D.R.** - 1983 - PhD - Recent eolian activity and paleoclimate fluctuations in the Ferris-Lost Soldier area, south-central Wyoming.
- GENTRY, D.J.** - 1983 - Solution cleavage in the Twin Creek Formation and its relationships to thrust fault motions in the Idaho-Utah-Wyoming thrust belt.
- \* **GIDDINGS, H.J.** - 1935 - The geology of a portion of the Laramie Basin lying north of Como anticline, Albany County, Wyoming.
- GILLESPIE, J.M.** - 1992 - PhD - Tectonic significance of Jura-Cretaceous strata in the Western Interior foreland basin of southern Canada and northwestern Montana, U.S.
- \* **GILLILAND, J.D.** - 1959 - Geology of the Whiskey Mountain area, Fremont County, Wyoming.
- \* **GILLUM, J.P.** - 1956 - Stratigraphy and structure of the Alkali Creek-Willow Creek area, Natrona County, Wyoming.

- GILMAN, M.N.** - 1955 - Trilobites of the Upper Cambrian Gorge Formation of Highgate Falls, Vermont.
- \* **GILMER, D.R.** - 1986 - General geology, landsliding, and slope development of a portion of the north flank of the Uinta Mountains, south-central Uinta County, Wyoming.
- \* **GIST, J.G.** - 1957 - Geology of the north Freezeout Hills and adjacent areas, Carbon and Albany Counties, Wyoming.
- GJELSTEEN, T.W.** - 1988 - Origin and timing of uranium mineralization in the Chadron Formation, Northwest Nebraska.
- GLIOZZI, J.** - 1967 - PhD - Petrology and structure of the Precambrian rocks of the Copper Mountain district, Owl Creek Mountains, Fremont County, Wyoming.
- GLOOR, E.A.** - 1969 - Solubility of a natural rhyolitic glass in alkaline solutions.
- GOHL, K.** - 1991 - PhD - Seismic wide-angle studies of early Archean and proterozoic crust in Greenland, Minnesota, and Wyoming.
- \* **GOOD, L.W.** - 1960 - Geology of the Baggs area, Carbon County, Wyoming.
- GOODWIN, C.N.** - 1976 - The geomorphology and sedimentology of a sand bottom ephemeral stream.
- GOODWIN, J.H.** - 1971 - PhD - Authigenesis of silicate minerals in tuffs of the Green River Formation, Wyoming.
- \* **GOOLDY, P.L.** - 1947 - Geology of the Beaver Creek-South Sheep Mountain area, Fremont County, Wyoming.
- GORDON, I.R.** - 1990 - Sedimentation and structure of the Pine Valley Basin, northeast Nevada.
- GORHAM, J.M.** - 1986 - Seismic velocities of Archean metagreywackes and metavolcanic rocks, Wind River Range, Wyoming.
- \* **GRACE, R.M.** - 1951 - Stratigraphy of the Newcastle Formation, Black Hills region, Wyoming and South Dakota.
- \* **GRAFF, P.J.** - 1978 - PhD - Geology of the lower part of the Early Proterozoic Snowy Range supergroup, Sierra Madre, Wyoming: with chapters on Proterozoic regional tectonics and uraniferous quartz-pebble conglomerates.
- GRANATA, W.H., Jr.** - 1960 - PhD - Cretaceous stratigraphy and structural development of the Sabine uplift area, Texas and Louisiana.
- \* **GRANT, S.C.** - 1954 - Channel deposits of the Wind River Formation in Fremont County, Wyoming, as a guide to uranium ore.
- GRASSO, D.N.** - 1990 - PhD - Recognition and paleogeography of Quaternary Lake Wamsutter (a proposed lake in Wyoming's Great Divide Basin) combining Landsat remote sensing and digital elevation modeling.
- \* **GRAVESON, D.H., Jr.** - 1965 - Uranium distribution in granites of the Shirley and Pedro Mountains, Carbon County, Wyoming.
- \* **GRAY, L.O., Jr.** - 1947 - Geology of the east flank of the Laramie Range in the vicinity of Horse Creek, Laramie County, Wyoming.

- GREER, P.L.** - 1985 - Genesis and paleogeographic significance of evaporites and associated facies of the Goose Egg Formation (Permo-Triassic), southeastern Wyoming.
- \* **GRIES, J.C.** - 1964 - The structure and Cenozoic stratigraphy of the Pass Creek Basin area, Carbon County, Wyoming.
- GROLL, P.E.** - 1986 - Sedimentation and tectonics of the upper Bridger Formation, southern Wind River Range, Wyoming.
- GROTH, F.A.** - 1955 - Stratigraphy of the Chinle Formation in the San Rafael Swell, Utah.
- \* **GUBBELS, T.L.** - 1987 - Structural and geomorphic evolution of the north flank, eastern Owl Creek Mountains, Wyoming.
- \* **GUYTON, J.W.** - 1960 - Geology of the Lost Soldier area, Sweetwater, Fremont, and Carbon Counties, Wyoming.
- GUYTON, J.W.** - 1965 - PhD - Ancient landslide deposits and gravity slides in Wyoming.
- \* **GWINNER, D.** - 1979 - Structural setting of uranium-bearing quartz-pebble conglomerate of Precambrian age, northwest Sierra Madre, Carbon County, Wyoming.
- HAGEN, E.S.** - 1986 - PhD - Hydrocarbon maturation in Laramide-style basins: constraints from the northern Bighorn Basin, Wyoming and Montana.
- HAGER, M.W.** - 1973 - PhD - Late Pliocene and Pleistocene history of the Donnelly Ranch vertebrate site, southeastern Colorado.
- \* **HALE, L.A.** - 1950 - Stratigraphy of the Upper Cretaceous Montana Group in the Rock Springs uplift, Sweetwater County, Wyoming.
- \* **HALL, W.B.** - 1961 - PhD - Geology of part of the upper Gallatin Valley of southwestern Montana.
- HALLIN, J.S.** - 1973 - Heat flow and radioactivity studies in Colorado and Utah, 1971-1972.
- HALLOCK, D.H.V.** - 1933 - Physiographic history of the Laramie Range.
- HAMILTON, H.E.** - 1964 - Stratigraphy and depositional history of the Muddy Formation in the Freezeout Mountains area, northeastern Carbon County, Wyoming.
- \* **HAMMOND, C.R.** - 1949 - Geology of the east flank of the Laramie Range in the vicinity of Iron Mountain, Wyoming.
- HANAGAN, E.J.** - 1956 - Some Permian mollusks from Wyoming.
- HAND, F.E.** - 1979 - Ground-water resources in the northern part of the Glen Canyon National Recreation Area and adjacent lands west of the Colorado and Green Rivers, Utah.
- HAND, H.D.** - 1938 - The stratigraphy of the Mississippian rocks of the southeastern part of Wyoming.
- HANLEY, J.H.** - 1974 - PhD - Systematics, paleoecology, and biostratigraphy of nonmarine mollusca from the Green River and Wasatch Formations (Eocene), southwestern Wyoming and northwestern Colorado.

- HANSEN, S.A.** - 1992 - Animal and plant ichnology of the Permo-Pennsylvanian Casper Formation, southeast Wyoming.
- \* **HANSON, B.M.** - 1954 - Geology of the Elkhorn Ranch area, Billings and Golden Valley Counties, North Dakota.
- HANSON, B.V.** - 1969 - Quaternary geology of the Willow Spring archaeological site, southeastern Wyoming.
- HARDER, S.** - 1985 - Interpretation of wide-angle reflections under the Green River Basin, Wyoming.
- HARDING, M.B.** - 1987 - The geology of the Wildrose Peak area, Panamint Mountains, California.
- HARRIS, R.E.** - 1982 - Alteration and mineralization associated with sandstone uranium occurrences, Morton Ranch, Wyoming, and the Seboyeta area, New Mexico.
- \* **HARRISON, J.W.** - 1938 - Pennsylvanian stratigraphy of the Laramie Range of southeastern Wyoming.
- \* **HARSTON, L.W.** - 1959 - Geology of the Bear Creek-Beaver Creek area, Big Horn and Sheridan Counties, Wyoming.
- HARTMAN, J.E.Z.** - 1984 - Vertebrate paleontology of the lower part of the Polecat Bench Formation, south-central Bighorn Basin, Wyoming.
- \* **HAUF, C.B.** - 1963 - Overthrusting in the upper Fontenelle-La Barge Creek area, Lincoln and Sublette Counties, Wyoming.
- \* **HAUN, J.D.** - 1949 - Geology of a portion of the east flank of the Laramie Range, Wyoming.
- HAUN, J.D.** - 1953 - PhD - Stratigraphy of the Frontier Formation, Powder River Basin, Wyoming.
- HAYWOOD, H.C.** - 1973 - Depositional processes of the Casper Sandstone in the southernmost Laramie Basin as indicated by settling velocities of light and heavy materials.
- HEASLER, H.P.** - 1978 - Heat flow in the Elk Basin Oil Field, northwestern Wyoming.
- HEASLER, H.P.** - 1984 - PhD - Thermal evolution of coastal California with implications for hydrocarbon maturation.
- HEATHMAN, J.H.** - 1939 - Bentonite in Wyoming.
- HEIMAN, M.E.** - 1972 - Casper Formation conodonts.
- HEIMAN, M.E.** - 1977 - PhD - Neogene deep-water benthonic foraminifera from the southwestern Pacific: (DSDP Legs 21 and 7).
- \* **HEISEY, E.L.** - 1949 - Geology of the east Ferris Mountains, Carbon County, Wyoming.
- \* **HENSLEY, F.S., Jr.** - 1956 - Some macrofossils of the Pennsylvanian-Permian Casper Formation along the west flank of the Laramie Range, Albany County, Wyoming.
- HERRICK, R.C.** - 1972 - Authigenic minerals in the Pleistocene and recent sediments of Lake Magadi, Kenya.

- \* **HERRMANN, R.** - 1972 - PhD - Shallow aquifers relative to surface waters, North Platte River valley, Goshen County, Wyoming.
- \* **HEYDENBURG, R.J.** - 1966 - Stratigraphy and depositional environments of the Parkman Sandstone Member, Mesaverde Formation near Midwest, Natrona County, Wyoming.
- HEYMAN, O.G.** - 1983 - Regional compression as the cause for Laramide deformation of the northwestern Uncompahgre Plateau, western Colorado and eastern Utah.
- HILL, V.S.** - 1991 - PhD - Comparative subsidence analysis of part of the Late Cretaceous U.S. Western Interior foreland basin.
- \* **HINDS, G.W.** - 1958 - Geology of the Mike Spencer Canyon area, Bonneville County, Idaho.
- HOARE, B.S.** - 1985 - Aeromagnetic interpretation of the Boulder batholith area, Montana.
- HOCH, A.R.** - 1991 - Petrological and geochemical evolution of the Rattlesnake Hills alkaline-intrusive complex, Natrona County, Wyoming.
- \* **HODGE, D.S.** - 1963 - Polymetamorphism of Precambrian rocks in the southern Wind River Mountains, Fremont County, Wyoming.
- HODGE, D.S.** - 1966 - PhD - Petrology and structural geometry of Precambrian rocks in the Bluegrass area, Albany County, Wyoming.
- HOFFMAN, M.E.** - 1977 - Origin and mineralization of breccia pipes, Grand Canyon district, Arizona.
- HOLDEN, G.S.** - 1978 - PhD - The Slate Creek metamorphic terrain, Albany County, Wyoming, conditions of metamorphism and mineral equilibria in metapelites.
- HOODMAKER, F.C.** - 1958 - Regional stratigraphy of the Cloverly Formation, North Park Basin, Colorado.
- \* **HOULETTE, K.N.** - 1947 - Geology of McGill anticline, Albany County, Wyoming.
- HUANG, C.** - 1970 - Cataclastic rocks in the Little Beaver Creek area, Carbon County, Wyoming.
- \* **HUBBELL, R.G.** - 1954 - Stratigraphy of the Jelm, Nugget, and Sundance Formation of northern Carbon County, Wyoming.
- HUDEC, M.R.** - 1990 - PhD - The structural and thermal evolution of the central Ruby Mountains, Elko County, Nevada.
- HUDSON, W.M.** - 1989 - Computer mapping for the Wyoming Water Atlas.
- HUGHES, M.A.** - 1973 - A study of the Precambrian rocks of the Cow Creek area, Sierra Madre Mountains [sic], Carbon County, Wyoming.
- HULSEBOSCH, T.P.** - 1993 - PhD - Aspects of crustal evolution in the Archean Wind River Range, Wyoming.
- \* **HUMMEL, J.M.** - 1958 - Geology of the Pacific Creek area, Sublette and Fremont Counties, Wyoming.
- \* **HUNTER, J.M.** - 1955 - Geology of the North Hahns Peak area, Routt County, Colorado.

- \* **HUNTER, L.D.** - 1950 - Frontier Formation along the eastern margin of the Bighorn Basin, Wyoming.
- HUNTER, R.B.** - 1986 - Timing and structural relation between the Gros Ventre foreland uplift, the Prospect thrust system, and the Granite Creek thrust system, Wyoming.
- HURCOMB, D.R.** - 1984 - Chemical weathering in a small alpine drainage basin, North Cascades, Washington.
- HURICH, C.A.** - 1981 - Gravity interpretation of the southern Wind River Mountains, Wyoming.
- HURLOW, H.A.** - 1987 - Structural geometry, fabric, and chronology of a Tertiary extensional shear zone-detachment system, southwestern East Humboldt Range, Elko County, Nevada.
- HURST, D.J.** - 1984 - Depositional environment and tectonic significance of the Tunp member of the Wasatch Formation, southwest Wyoming.
- HUSAIN, F.** - 1963 - Stratigraphic type oil pools in the Minnelusa Formation of northeastern Wyoming.
- HUYCKE, D.T.** - 1979 - Detailed study of magnetic reversals in the lower Triassic Chugwater Formation, Wyoming.
- ILTIS, S.T.** - 1983 - Processing and interpretation of seismic reflection data from the Precambrian of the central Laramie Range, Albany County, Wyoming.
- IRWIN, B.R.** - 1973 - Interpretation of sedimentary structures in the upper Red Peak and Jelm Formations (Triassic), southeastern Wyoming and northern Colorado.
- ISAACSON, L.B.** - 1972 - A major negative gravity anomaly in central Colorado: its interpretation and significance.
- ISBELL, W.B.** - 1989 - Converting spinner magnetometers for computer-controlled data collection and reduction and paleomagnetic study of volcanic and volcanoclastic rocks from the Absaroka Mountains, northwestern Wyoming.
- \* **ISBERG, J.T.** - 1937 - The geology of a portion of east-central Carbon County, north and west of Elk Mountain, Wyoming.
- IVERSON, W.P.** - 1983 - PhD - Processing and interpretation of COCORP southern Appalachian profiles.
- JACKSON, K.E.** - 1984 - Geology of the Circle Bar Lake Quadrangle, Fremont and Sweetwater Counties, Wyoming.
- JAEGER, K.B.** - 1987 - Structural geology and stratigraphy of the Elko Hills, Elko County, Nevada.
- JARRE, G.A.** - 1962 - Geology of the Sortehjorne area, Mesters Vig, Scoresby Land, East Greenland.
- \* **JARVIS, W.T.** - 1986 - Regional hydrogeology of the Paleozoic aquifer system, southeastern Bighorn Basin, Wyoming, with an impact analysis on Hot Springs State Park.
- \* **JAWOROWSKI, C.C.** - 1985 - Geomorphic mapping and trend analysis of Quaternary deposits with implications for Late Quaternary faulting, central Wyoming.

- JAWOROWSKI, C.C.** - 1993 - PhD - Quaternary terraces and related deposits in the western Wind River Basin, Wyoming.
- \* **JENKINS, C.E.** - 1950 - Geology of the Bates Creek-Corral Creek area, Natrona County, Wyoming.
- \* **JENKINS, P.T.** - 1938 - Geology of a portion of the east side of the Laramie Range, Albany, Laramie, and Platte Counties, Wyoming.
- JETT, G.A.** - 1986 - Sedimentary petrology of the western melange belt, North Cascade Range, Washington.
- JIAO, Z.S.** - 1992 - PhD - Thermal maturation/diagenetic aspects of the abnormal pressure in Cretaceous shales and sandstones, Powder River Basin, Wyoming.
- JOHNSON, F.O.** - 1962 - Ground-water geology of central Niobrara County, Wyoming.
- JOHNSON, R.A.** - 1984 - PhD - Geophysical investigation of Precambrian crustal structure and Laramide effects across a Precambrian suture in southeast Wyoming.
- JOHNSON, S.A.** - 1994 - Permeability architecture and groundwater circulation along a fault-severed margin, north Hanna Basin, Carbon County, Wyoming.
- \* **JOHNSTON, R.H.** - 1959 - Geology of the northern Leucite Hills, Sweetwater County, Wyoming.
- \* **KAABAR, S.M.** - 1970 - Geology of the Pinto Creek Quadrangle, Albany County, Wyoming.
- KABLANOW, R.I., II** - 1983 - Diagenesis and hydrocarbon generation in the Monterey Formation, Huasna Basin, California.
- KABLANOW, R.I., II** - 1986 - PhD - Influence of thermal and depositional histories on diagenesis and hydrocarbon maturation in the Monterey Formation — Huasna, Pismo, and Salinas Basins, California.
- KAMINSKY, B.** - 1977 - Correlation of LANDSAT multispectral data to rock reflectance measurements.
- KARASA, N.L.** - 1976 - A gravity interpretation of the Granite Mountains area, central Wyoming.
- \* **KARLSTROM, K.E.** - 1977 - Geology of the Proterozoic Deep Lake Group, central Medicine Bow Mountains, Wyoming.
- KARLSTROM, K.E.** - 1981 - PhD - Late Archean and Early Proterozoic geologic history of metasedimentary rocks of the Medicine Bow Mountains, Wyoming.
- KEEFER, C.M.** - 1979 - PhD - An experimental study of synthetic titanomagnetite: synthesis, magnetic analysis, and crystallographic measurements.
- \* **KEEFER, W.R.** - 1952 - Geology of the Red Hills area, Teton County, Wyoming.
- KEEFER, W.R.** - 1956 - PhD - Geology of the Du Noir area, Fremont County, Wyoming.
- KELLER, M.A.** - 1957 - Stratigraphy of the pre-Cody Cretaceous rocks in the southeastern Wind River Basin, Fremont County, Wyoming.
- KELLEY, J.C.** - 1966 - PhD - Least squares analysis of tectonite fabric data.

- KEY, S.C.** - 1988 - High resolution coherency measure for event detection and velocity estimation in seismic reflection data.
- KIMBALL, B.A.** - 1981 - PhD - Trace elements in suspended sediment, southeastern Uinta Basin, Utah and Colorado.
- KING, J.K.** - 1984 - Utility of LANDSAT imagery for recognition of Tertiary, silicic and intermediate volcanic features in northern Nevada.
- \* **KING, J.R.** - 1961 - Geology of the Boswell Creek area, Albany County, Wyoming.
- \* **KING, J.S.** - 1963 - PhD - Petrology and structure of the Precambrian and post-Mississippian rocks of the northeastern Medicine Bow Mountains, Carbon County, Wyoming.
- KIRN, D.J.** - 1972 - Sandstone petrology of the Casper Formation, southern Laramie Basin, Wyoming and Colorado.
- KIRSCHNER, W.A.** - 1984 - Nonmarine molluscan paleontology and paleoecology of Early Tertiary strata, Hanna Basin, Wyoming.
- \* **KISLING, D.C.** - 1962 - Geology of the Antelope Ridge area, Fremont and Hot Springs Counties, Wyoming.
- \* **KISTNER, F.B.** - 1973 - Stratigraphy of the Bridger Formation in the Big Island-Blue Rim area, Sweetwater County, Wyoming.
- KIVER, E.P.** - 1968 - PhD - Geomorphology and glacial geology of the southern Medicine Bow Mountains, Colorado and Wyoming.
- \* **KIVI, W.J.** - 1940 - The stratigraphy of the Phosphoria Formation of western Wyoming, with notes on the occurrence of phosphate.
- KLING, J.F.** - 1986 - Petrology of the Strong Creek prospect, Albany County, Wyoming, and in the system Fe-Ti-Si-O-S.
- KNAPP, R.R.** - 1976 - Depositional environments and diagenesis of the Nugget Sandstone, south-central Wyoming, northeast Utah, and northwest Colorado.
- \* **KNIGHT, W.H.** - 1944 - The geology of the western part of the Flat Top anticline, Carbon County, Wyoming.
- \* **KOENIG, A.A., Jr.** - 1952 - Geology of the Troublesome Creek Basin, Carbon County, Wyoming.
- \* **KOENIG, R.L.** - 1971 - Stratigraphy and structural geology of the Snider Basin area, in the Overthrust Belt, Sublette County, Wyoming.
- KOESTERER, M.E.** - 1986 - Archean history of the Medina Mountain area, Wind River Range, Wyoming.
- \* **KOLB, G.** - 1983 - Geology of the New Fork Lakes area, Sublette County, Wyoming, with the application of remote sensing.
- KOLM, K.E.** - 1975 - Selenium in soils of the lower Wasatch Formation, Campbell County, Wyoming: geochemistry, distribution, and environmental hazards.
- KOLM, K.E.** - 1977 - PhD - Predicting the surface wind characteristics of southern Wyoming from remote sensing and eolian geomorphology.



- \* **KONKEL, P.** - 1935 - Geology of the northeast portion of the Laramie Basin, Little Medicine district, Wyoming.
- KOPRIVA, S.J.** - 1981 - Shallow seismic reflection study over an underground coal gasification site, Hanna, Wyoming.
- KORNEGAY, G.L.** - 1976 - Lithologic, mineralogic, and paleontologic variations in the Laney Member, Green River Formation, Sand Wash Basin and southernmost Washakie Basin, Colorado and Wyoming.
- KRATOCHVIL, A.L.** - 1981 - Geology of the uraniferous Deep Gulch conglomerate (Late Archean), northwestern Sierra Madre, Wyoming.
- KRAUS, M.J.** - 1979 - The petrology and depositional environments of a continental sheet sandstone: the Willwood Formation, Bighorn Basin, Wyoming.
- KRON, D.G.** - 1978 - Oligocene vertebrate paleontology of the Dilts Ranch area, Converse County, Wyoming.
- KROSKY, S.** - 1974 - Tectonic analysis of the Forester Creek anticline, Larimer County, Colorado.
- KULAS-ADLER, H.A.** - 1984 - Silicified Permian gastropods of the Park City Formation in Wyoming.
- \* **LACKEY, L.L.** - 1965 - Petrography of metavolcanic and igneous rocks of Precambrian age in the Huston Park area, Sierra Madre, Wyoming.
- LAGESON, D.R.** - 1977 - Depositional environments and diagenesis of the Madison Limestone, northern Medicine Bow Mountains, Wyoming.
- \* **LAGESON, D.R.** - 1980 - PhD - Structural geology of the Stewart Peak Quadrangle, Lincoln County, Wyoming, and adjacent parts of the Idaho-Wyoming Thrust Belt.
- \* **LANDAU, D.** - 1966 - Structural geology of the northern Shirley Mountains, Carbon County, Wyoming.
- LANGSTAFF, G.D.** - 1984 - Investigation of Archean metavolcanic and metasedimentary rocks of Sellers Mountain, west central Laramie Mountains, Wyoming
- \* **LANTHIER, L.R.** - 1978 - Stratigraphy and structure of the lower part of the Precambrian Libby Creek Group, central Medicine Bow Mountains, Wyoming.
- LARKIN, S.P.** - 1992 - Crustal structure of a rifted Archean block, Ameralik, southwest Greenland.
- \* **LARSEN, J.H.** - 1950 - Ground-water conditions of a part of the Kendrick Project, Natrona County, Wyoming.
- \* **LAWRENCE, J.C.** - 1962 - Wasatch and Green River Formations of the Cumberland Gap area, Lincoln and Uinta Counties, Wyoming.
- \* **LAWSON, D.E.** - 1949 - Geology of the west Ferris Mountains, Carbon County, Wyoming.
- LEE, Teh-Quek** - 1983 - Paleomagnetic study of volcanic and volcanoclastic rocks from the Absaroka Mountains, northwest Wyoming.

- LE FEBRE, G.B.** - 1988 - PhD - Tectonic evolution of Hanna Basin, Wyoming: Laramide block rotation in the Rocky Mountain foreland.
- LE FEBRE, V.S.** - 1987 - Foraminiferal paleoecology of the lower Niobrara Formation at Springer, New Mexico.
- LEHRER, M.G.** - 1982 - Glacial geology of the Upper Bear Creek drainage, Park Range, Colorado.
- LEI, Y.** - 1992 - Paleomagnetic study of the Permo-Triassic Karroo Formation in southern Tanzania and effect of prograde metamorphism on magnetic properties of basalts.
- LEITE, M.B.** - 1992 - PhD - Vertebrate biostratigraphy and taphonomy of the Fort Union Formation (Paleocene) east of Grass Creek Basin, southwestern Bighorn Basin, Wyoming.
- LEVINSON, R.A.** - 1979 - Remote sensing applied to uranium exploration in Wyoming.
- LIBERTY, L.M.** - 1992 - Acquisition, processing, and interpretation of seismic reflection data in the Basin and Range, east-central Nevada.
- LIEBES, E.** - 1981 - PhD - Direct methods for determining the timing of magnetization in redbeds and isothermal remanent magnetization acquisition spectra for some naturally occurring hematites.
- LINNEMAN, S.R.** - 1990 - PhD - The petrologic evolution of the Holocene magmatic system of Newberry Volcano, central Oregon.
- LINTON, J.A.** - 1993 - Constraining the processes of magmatic evolution: perspectives from two volcanic centers.
- \* **LITCHFORD, R.F.** - 1966 - Structural geology and stratigraphy of a part of the Overthrust Belt near Wyoming Peak, Lincoln and Sublette Counties, Wyoming.
- LOEFFLER, R.J.** - 1939 - The stratigraphy of a portion of the east side of the Laramie Range, Laramie County, Wyoming.
- LONDE, M.D.** - 1986 - PhD - The Colorado Plateau-Basin and Range transition zone of central Utah: thermomechanical modeling and spectral analysis of topographic and gravity data.
- \* **LONG, E.G.** - 1957 - Geology of the Enos Creek area, Bighorn Basin, Hot Springs County, Wyoming.
- \* **LONG, J.S., Jr.** - 1959 - Geology of the Phlox Mountain area, Hot Springs and Fremont Counties, Wyoming.
- LOOPE, D.B.** - 1981 - PhD - Deposition, deflation, and diagenesis of upper Paleozoic eolian sediments, Canyonlands National Park, Utah.
- LOOSE, S.A.** - 1988 - Sedimentary facies, ore mineralogy, and paragenesis of the [Lake] Alice Cu-Ag-Pb-Zn district in the Wyoming Overthrust Belt.
- LOUGHLIN, W.D.** - 1983 - Hydrogeologic controls on water quality, ground-water circulation, and collapse breccia pipe formation in the western part of the Black Mesa hydrologic basin, Coconino County, Arizona.
- LOVE, F.R.** - 1986 - Foraminiferal biostratigraphy and spectral gamma ray profiling of the Tununk Shale, southeastern Utah.

- \* **LOVE, J.D.** - 1934 - The geology of the western end of the Owl Creek Mountains, Wyoming.
- LOWRY, A.R.** - 1988 - A numerical modeling approach employing singularity removal applied to the evaluation of the Bristow interpretive technique for the detection of cavities.
- LU, C.F.** - 1992 - Crustal structure in the northeastern Washington and northern Idaho from COCORP deep-reflection data and from gravity data.
- LUNDELL, L.L.** - 1977 - PhD - Depositional environment of the Eocene Green River Formation, Piceance Creek Basin, Colorado.
- \* **LUNDY, D.** - 1978 - Hydrology and geochemistry of the Casper aquifer in the vicinity of Laramie, Albany County, Wyoming.
- \* **LYNN, J.R.** - 1947 - Geology of the north margin of the Reshaw Hills, Platte County, Wyoming.
- \* **LYON, D.L.** - 1956 - Geology of the north flank, eastern Bridger Range, Hot Springs County, Wyoming.
- MacCLINTOCK, C.** - 1957 - Upper part of Morrison Formation and Cloverly Formation southeastern Big Horn [sic] Mountains, Wyoming.
- MacCREADY, T.** - 1993 - Late Eocene-Oligocene mid-crustal flow beneath the mylonitic, extensional shear zone of the Ruby Mountains metamorphic core complex, Elko County, Nevada.
- MacGOWAN, D.B.** - 1993 - PhD - Carboxylic acids and anions in sedimentary formation of waters: occurrence, effect on mineral stability, and importance to diagenetic modeling.
- MACKENZIE, R.J.** - 1976 - Magnetic prospecting for uranium, southern Powder River Basin, Wyoming.
- MADSON, M.** - 1978 - A statistical analysis of heavy mineral variations in Upper Cretaceous black sandstone deposits of the Rocky Mountain states.
- \* **MANION, L.J.** - 1961 - Geology of the Irish Canyon-Vermilion Creek area, Moffat County, Colorado.
- MANION, R.E.** - 1959 - Geology of an area east of Willow Creek Pass, Grand and Jackson Counties, Colorado.
- MANKIEWICZ, D.** - 1974 - Holocene sedimentation in Green Lake, Teton County, Wyoming.
- MANNING, L.K.** - 1988 - Neodymium isotopes: a potential geochemical tracer for petroleum exploration.
- MANSKE, M.C.** - 1989 - Tectonothermal controls on hydrocarbon maturation and siliciclastic source/reservoir diagenesis, Eocene Misoa Formation, Bolivar coastal field, Maracaibo Basin, Venezuela.
- \* **MARAVICH, M.D.** - 1940 - The geology of the Freezeout Mountain-Bald Mountain area, Carbon County, Wyoming.

- \* **MARET, R.E.** - 1956 - Sedimentary petrography of the Weber Formation at Rangely Field, Rio Blanco County, Colorado, and adjacent areas.
- MARINER, R.H.** - 1967 - Volcanic geology of part of the western end of the Rabbit Ears Range, Jackson and Grand Counties, Colorado.
- MARINER, R.H.** - 1971 - PhD - Experimental evaluation of authigenic mineral reactions in the Pliocene Moonstone Formation.
- MARKS, J.E.** - 1985 - Multispectral remote sensing techniques applied to exploration for kimberlite diatremes, Laramie Range, Wyoming-Colorado.
- \* **MARLATT, G.** - 1989 - Geology of a Precambrian igneous/metamorphic sequence, Laramie Range, Wyoming.
- MARSHALL, D.M.** - 1987 - Structure and petrology of an Archean shear zone, Crescent Lake area, Wind River Mountains, Wyoming.
- MARTIN, A.B.** - 1939 - Growth conditions for single and mosaic crystals of zinc.
- MASON, G.M.** - 1987- PhD - Mineralogic aspects of stratigraphy and geochemistry of the Green River Formation, Wyoming.
- MASON, J.M.** - 1984 - Hydrophilic organic compounds produced by underground coal gasification.
- MAST, M.A.** - 1989 - PhD - A laboratory and field study of chemical weathering with special reference to acid deposition.
- MASTER, T.D.** - 1977 - Geological and geochemical evaluation of rock and mineral occurrences in the Precambrian of the Ferris Mountains, Carbon County, Wyoming.
- \* **MATUS, I.** - 1958 - The geology of the lower French Creek area, Carbon County, Wyoming.
- MAUCIONE, D.T.** - 1993 - Seismic reflection delineation of abnormally pressured zones in the Powell Field of the Powder River Basin, Wyoming
- \* **MAX, M.D.** - 1965 - Gypsum deposits in the northeastern part of the Bighorn Basin, Big Horn County, Wyoming.
- MAY, M.T.** - 1991 - Reanalysis of COCORP seismic reflection data from the Priest River metamorphic core complex of northeastern Washington.
- MAYRAND, L.** - 1990 - Seismic properties of tuffs from the epithermal system of Creede, Colorado.
- McCALLUM, M.E.** - 1964 - PhD - Petrology and structure of the Precambrian and post-Mississippian rocks of the east-central portion of the Medicine Bow Mountains, Albany and Carbon Counties, Wyoming.
- McCLURG, T.A.** - 1990 - Lithosome relationships and depositional environment of the O'Brien Springs Sandstone (Late Cretaceous), south-central Wyoming.
- \* **McCONNELL, M.D.** - 1960 - Geology of the Clark-Hinman Park area, Routt County, Colorado.
- McCOY, M.R.** - 1952 - Pre-Whitewood Ordovician stratigraphy of the Black Hills.

- \* **McCUE, J.J.** - 1953 - Facies changes within the Phosphoria Formation in the southeast portion of the Big Horn [sic] Basin, Wyoming.
- McCULLAR, D.B.** - 1977 - Seismic refraction analysis of the crust and upper mantle beneath the Rio Grande rift in southern New Mexico.
- \* **McCURDY, H.R.** - 1941 - Pennsylvanian and Permian stratigraphy along the eastern flank of the Laramie Range, southeastern Wyoming.
- \* **McDAVID, J.D.** - 1953 - Geology of the Muddy Creek area, Carbon County, Wyoming.
- McDONOUGH, D.T.** - 1990 - PhD - Compressional wave velocities of mylonites and other mid-crustal rocks from metamorphic core complexes: implications for seismic structure of the continental middle crust.
- McELHANEY, D.A.** - 1988 - Depositional environments and provenance of the lower Tertiary Ferris and basal Hanna Formations, Hanna Basin, southeastern Wyoming.
- McGEE, L.C.** - 1983 - Laramide sedimentation, folding, and faulting, southern Wind River Range, Wyoming.
- \* **McGOOKEY, D.P.** - 1952 - Pennsylvanian and early Permian stratigraphy of the southeast portion of the east flank of the Laramie Range, Wyoming and Colorado.
- \* **McGRAW, R.B., Jr.** - 1954 - Geology in the vicinity of the Copper King Mine, Laramie County, Wyoming.
- McGREW, A.J.** - 1992 - PhD - Tectonic evolution of the northern east Humboldt Range, Elko County, Nevada.
- \* **McGREW, A.R.** - 1965 - Stratigraphy and mineralogy of the Blue Point member of the Wiggins Formation, southeast Absaroka Range, Park County, Wyoming.
- \* **McGREW, L.W.** - 1953 - The geology of the Grayrocks area, Platte and Goshen Counties, Wyoming.
- \* **McKAY, E.J.** - 1948 - Geology of the Red Canyon Creek area, Fremont County, Wyoming.
- MEDLIN, W.E.** - 1983 - Modeling local thermal anomalies: constraints from conductivity, gravity, and heat flow.
- MERRITT, Z.S.** - 1958 - Tertiary stratigraphy and general geology of the Alpine, Idaho-Wyoming area.
- \* **MERRY, R.D.** - 1963 - Precambrian geology, shear zones, and associated mineral deposits of the Hog Park area, Carbon County, Wyoming.
- MESCHER, P.A.** - 1950 - Insoluble residues of the Madison Limestone in south-central Wyoming.
- MESHERYAKOVA, G.S.** - 1993 - Gas cross-over effect in tight gas sands, Almond Formation, Washakie Basin, Wyoming.
- \* **METTES, K.J.** - 1980 - The contact between the late Paleozoic Tensleep Sandstone and Phosphoria Formation, and origin of the boundary beds, in northwestern Wyoming.
- MEYER, J.E.** - 1984 - The stratigraphy of the Gypsum Spring Formation (Middle Jurassic) northwestern Bighorn Basin, Wyoming.

- MIAO, D.** - 1987 - PhD - Skull morphology of *Lambdaopsalis bulla* (Mammalia, Multituberculata) and its implication to mammalian evolution.
- \* **MICHALEK, D.D.** - 1952 - Pre-cambrian [sic] geology of Jelm Mountain, Albany County, Wyoming.
- MIDDLETON, L.T.** - 1980 - PhD - Sedimentology of Middle Cambrian Flathead Sandstone, Wyoming.
- MILLER, R.P.** - 1989 - Late Pennsylvanian - Early Permian depositional facies and paleogeographic significance of mixed-clastic outer-shelf-to-basin sequence: east-central California and western Nevada.
- MILLER, S.M.** - 1982 - PhD - Statistical and Fourier methods for probabilistic design of rock slopes.
- MILLER, W.R.** - 1971 - Geology of the Indian Rocks area, Carbon County, Wyoming, with particular reference to the evolution of mafic dikes.
- MILLER, W.R.** - 1974 - PhD - Chemical weathering and related controls on surface water chemistry in the Absaroka Mountains, Wyoming.
- \* **MILLICE, R.** - 1959 - Stratigraphy of the Green River Formation in the southeastern Bridger Basin, Wyoming.
- MILLS, J.P.** - 1989 - Foreland structure and karstic ground water circulation in the eastern Gros Ventre Range, Wyoming.
- MILLS, R.K.** - 1965 - Petrography of uranium ore rolls in the Powder River Basin, Wyoming.
- \* **MINICK, J.N.** - 1951 - Tertiary stratigraphy of southeastern Wyoming and northeastern Colorado.
- MINNICH, G.W.** - 1988 - Processing and interpretation of Vibroseis and downhole air-gun data to evaluate seismic energy propagation through clinker, Campbell County, Wyoming.
- MITCHELL, J.N.** - 1993 - PhD - Petrology and geochemistry of dioritic and gabbroic rocks in the Laramie anorthosite complex, Wyoming: implications for the evolution of Proterozoic anorthosite.
- \* **MITCHELL, S.D.** - 1957 - Geology of the eastern Alcova-Bear Creek area, Natrona County, Wyoming.
- \* **MOGENSEN, P.** - 1959 - Fort Union Formation, east flank of the Rock Springs uplift, Sweetwater County, Wyoming.
- MONCUR, R.S.** - 1993 - PhD - Diagenesis and hydrodynamics of the lower Cretaceous Muddy Sandstone in the vicinity of Amos Draw, Elk Draw, and Kitty Fields, Powder River Basin, Wyoming.
- MONCURE, G.K.** - 1979 - Depositional environment of the Green River Formation in the vicinity of the Douglas Creek arch, Colorado and Utah.
- MONCURE, G.K.** - 1980 - PhD - Zeolite diagenesis below Pahute Mesa, Nevada test site.
- \* **MONTAGNE, J. de la** - 1951 - Geomorphology of the north end of Centennial Valley-Table Mountain area, Wyoming.

- MONTAGNE, J. de la** - 1955 - PhD - Cenozoic history of the Saratoga Valley area, Wyoming and Colorado.
- MOORE, F.E.** - 1959 - The geomorphic evolution of the east flank of the Laramie Range, Colorado and Wyoming.
- MORAES, M.A.S.** - 1991 - PhD - Multiscale diagenetic heterogeneity and its influence on reservoir properties of fluvial, deltaic, and turbiditic sandstone reservoirs, Potiguar and Recôncavo rift basins, Brazil.
- MORAN, M.E.** - 1981 - Structural geology of the Commissary Ridge area, Bonneville County, Idaho.
- MOREL, J.D.** - 1978 - PhD - A paleomagnetic investigation of the Lake Owen complex, Medicine Bow Mountains, Wyoming.
- MORGAN, J.K.** - 1951 - Geology of the Otter Creek area, Washakie County, Wyoming.
- MORISAWA, M.** - 1952 - A subsurface study of the basal Ordovician of the Powder River Basin, Wyoming.
- \* **MORT, F.P.** - 1939 - The geology of an area between La Bonte and La Prele Creeks, Converse County, Wyoming.
- \* **MOTT, L.V.** - 1978 - Origin of the uraniferous phosphatic zones of the Wilkins Peak Member, Green River Formation, Wyoming.
- MUELLER, K.J.** - 1992 - PhD - Tertiary basin development and exhumation of the northern east Humboldt-Wood Hills metamorphic complex, Elko County, Nevada.
- \* **MUELLER, R.E.** - 1982 - The Cheyenne belt, southeastern Wyoming-Part I: descriptive geology and petrography.
- MUNOZ, P.** - 1989 - P-SV wave processing of sonic logs.
- MURPHY, D.J.** - 1971 - PhD - The petrology and deformational history of the basement complex, Wright Valley, Antarctica, with special reference to the origin of the augen gneisses.
- MURPHY, J.D.** - 1979 - PhD - Surface and ground-water chemistry of the Sage Creek drainage basin, southwest Wyoming: significance for trans-basin water diversion.
- MURPHY, K.M.** - 1993 - Kinetics of albite dissolution; the effect of grain size.
- \* **MURPHY, R.W.** - 1958 - Geology of the Slavonia-Diamond Park area, Routt County, Colorado.
- \* **MURRAY, F.E.** - 1957 - Geology of the Nowood area, Washakie County, Wyoming.
- MURRAY, W.B.** - 1984 - Landslides and other mass-wasting phenomena in the Little Mountain area, southwest Wyoming.
- MYERS, J.** - 1978 - Temperature-oxygen fugacity equilibria for the cobalt-cobalt oxide buffer, and in the magnetite-ilmenite deposit at Iron Mountain, Wyoming.
- MYERS, J.** - 1982 - PhD - Thermodynamic properties of minerals in the system Fe-Si-O.
- \* **MYERS, W.G.** - 1958 - Geology of the Sixmile Gap area, Albany and Carbon Counties, Wyoming.

- MYTTON, J.W.** - 1951 - An insoluble residue study of the Madison Formation of the northern part of the Laramie Range, Wyoming.
- NACE, R.L.** - 1936 - Summary of the Late Cretaceous and early Tertiary stratigraphy of Wyoming.
- \* **NEELY, J.** - 1934 - The geology of the north end of the Medicine Bow Mountains, Carbon County, Wyoming.
- NICE, D.E.** - 1985 - The role of skeletal diagenesis in carbonate fabric development, Thaynes Formation (Lower Triassic), northeast Utah and southeast Idaho.
- \* **NICOLL, G.A.** - 1963 - Geology of the Hutton Lake anticline area, Albany County, Wyoming.
- NISSEN, T.C.** - 1985 - Field and laboratory studies of selected periglacial wedge-polygons in southern Wyoming.
- NOBLE, E.A.** - 1961 - PhD - Water of compaction as an ore-forming fluid.
- NOVAKOVICH, B.D.** - 1987 - Analysis of photolinear elements and structure of Elk Mountain, Carbon County, Wyoming.
- NTULANALWO, V.B.** - 1992 - The modeling study of aeromagnetic data from Tanzania (Buseresere and Rufiji Basin cases).
- NYBLADE, A.A.** - 1985 - Timing volcanic events by secular variation and thermal modeling.
- OAKES, E.H.** - 1977 - Geology of the northern Grapevine Mountains, northern Death Valley, California.
- \* **OCHOA, R.E.** - 1970 - Depositional environments of the Newcastle Formation interpreted from outcrops in the Black Hills area, northeastern Wyoming.
- OGDEN, P.R., Jr.** - 1979 - PhD - The geology, major element geochemistry, and petrogenesis of the Leucite Hills volcanic rocks, Wyoming.
- OLANDER, P.A.** - 1979 - Authigenic mineral reactions in tuffaceous sedimentary rocks, Buckhorn, New Mexico.
- OLIVER, K.L.** - 1970 - Gravity study of the Hanna Basin.
- OLIVER, R.L.** - 1982 - Origin and geologic significance of the Snake River lineament, northern Idaho-Wyoming Thrust Belt.
- \* **ORBACK, C.J.** - 1960 - Geology of the Fox Creek area, Albany County, Wyoming.
- ORE, H.T.** - 1963 - PhD - The braided stream depositional environment.
- OSMOND, J.C., Jr.** - 1950 - Stratigraphy of the Cloverly Formation, Thermopolis Shale, and Muddy Sandstone in the Laramie Basin, Wyoming.
- OSTER, L.D.** - 1952 - Stratigraphy of the Cloverly Formation, the Thermopolis Shale, and the Muddy Sandstone in northeastern Carbon and southeastern Natrona Counties, Wyoming.
- OSTERWALD, D.B.** - 1949 - Metamorphism as related to structure in western Jefferson County, Colorado.



- \* **OSTERWALD, F.W.** - 1947 - Relation of granitization and mineral facies to structure in northeastern Albany County, Wyoming.
- \* **OVIATT, C.G.** - 1977 - Glacial geology of the Lake Marie area, Medicine Bow Mountains, Wyoming.
- OXBURGH, R.** - 1991 - The effect of pH, oxalate ion, and mineral composition on the dissolution rates of plagioclase feldspars.
- PACHT, J.A.** - 1976 - Depositional environments and diagenesis of the Nugget Sandstone, western Wyoming and north central Utah.
- PARKER, S.E.** - 1986 - Tectonostratigraphic relationships of the Upper Cretaceous and lower Tertiary strata of the Bighorn Basin, Wyoming.
- \* **PARTRIDGE, L.R.** - 1949 - The Phosphoria and Dinwoody Formations, northern Bighorn Basin, Wyoming and Montana.
- PATCHEN, A.D.** - 1987 - Stratigraphy and petrology of the Lake Owen Mafic Complex, SE Wyoming.
- PATEL, C.B.** - 1950 - Mineragraphy of the copper ores of the Encampment District, Wyoming.
- PATEL, S.C.** - 1992 - PhD - Rb-Sr isotope systematics and Proterozoic Barrovian metamorphism, Laramie Mountains, Wyoming.
- \* **PATTERSON, K.D.** - 1950 - Origin of graphite in western Platte County, Wyoming.
- \* **PAYLOR, E.D., II** - 1983 - Investigation of the surface features interpreted from remote sensing data of the Table Rock gas field, Sweetwater County, Wyoming.
- PEARSON, E.F.** - 1972 - PhD - Origin and diagenesis of the Owl Canyon and lower Goose Egg Formations (Permian) of southeastern Wyoming and adjacent Colorado.
- \* **PEDERSEN, K.** - 1968 - Sulfide mineralization of the northwestern part, Sunlight mining region, Park County, Wyoming.
- \* **PEDERSEN, S.L.** - 1953 - Stratigraphy of the Fountain and Casper Formations of southeastern Wyoming and north central Colorado.
- PEITERSEN, M.N.** - 1994 - Dynamics of large-scale, dry-transport landslides.
- \* **PEKAREK, A.H.** - 1974 - PhD - The structural geology and volcanic petrology of the Rattlesnake Hills, Wyoming.
- PEREZ, K.R.** - 1978 - Diagenesis of the Shannon Sandstone, southwest Powder River Basin, Wyoming.
- \* **PETERSON, A.F.** - 1935 - Geology of the Shirley Basin and Bates Hole regions, Carbon and Natrona Counties, Wyoming.
- \* **PHILLIPS, D.P.** - 1958 - Geology of the Sheep Ridge area, Hot Springs and Fremont Counties, Wyoming.
- PIERSON, W.R.** - 1984 - A geophysical study of the contact between the greenstone-granite terrain and the gneiss terrain in central Minnesota.
- \* **PIPIRINGOS, G.N.** - 1948 - Stratigraphy of the Sundance Formation, the Nugget (?) Sandstone, and the Jelm Formation (restricted), in Laramie Basin, Wyoming.

- PLEDGE, N.S.** - 1969 - Paleoenvironments and paleoecology of part of the lower Bridger Formation, south of Opal, Wyoming.
- POKRAS, E.M.** - 1977 - Biostratigraphy and paleobathymetry of benthic foraminifera: D.S.D.P. site 232, eastern Gulf of Aden.
- \* **POWELL, J.D.** - 1957 - Geology of the Blackrock Ridge area, Hot Springs and Fremont Counties, Wyoming.
- \* **PRICE, C.** - 1973 - Glacial and drainage history of the upper Cow Creek drainage, Sierra Madre range, Wyoming.
- PRICHINELLO, K.A.** - 1971 - Earliest Eocene mammalian fossils from the Laramie Basin of southeast Wyoming.
- PROCHASKA, E.J.** - 1960 - Foraminifera from two sections of the Cody Shale in Fremont and Teton Counties, Wyoming.
- PRUSS, E.F.** - 1977 - PhD - A paleomagnetic study of basalt flows from the Absaroka Mountains, Wyoming.
- PUJOL, J.M.** - 1985 - PhD - Vertical seismic profiling: data processing and interpretation, velocity determination, and attenuation measurements.
- PUWAKOOL, S.** - 1971 - Geology of the northern part of Hosta Butte (7.5-minute) Quadrangle, McKinley County, New Mexico.
- \* **RACHOU, J.F.** - 1951 - Tertiary stratigraphy of the Rattlesnake Hills, central Wyoming.
- RAMBERG, E.M.** - 1978 - A field laboratory study of Quaternary deposits in the Harestua region, southern Norway.
- \* **RAMSEY, R.D.** - 1955 - Geology of the Big Goose Canyon area, Sheridan County, Wyoming.
- RATTERMAN, N.G.** - 1980 - Mineral reactions in tuffaceous sediments of the Green River Formation, Wyoming.
- RENNER, J.M.** - 1988 - Placement and paleogeographic significance of Permian-Triassic boundary, central and southeast Wyoming.
- REPETTO, F.L.** - 1975 - Geology of the Cojitambo area province of Canar, Republic of Ecuador, South America.
- \* **RICHARDSON, A.L.** - 1950 - Geology of the Mayoworth region, Johnson County, Wyoming.
- RICHTER, H.R., Jr.** - 1980 - Ground-water resources in the part of Canyonlands National Park east of the Colorado River and contiguous Bureau of Land Management lands, Utah.
- RIDGLEY, J.L.** - 1972 - Chemical and mineral variation in the Lake Owen Mafic Complex, Albany County, Wyoming.
- \* **RIDGLEY, N.H.** - 1972 - Precambrian rocks in the Blackhall Mountain area, Carbon County, Wyoming.
- \* **RIEDL, G.W.** - 1959 - Geology of the eastern portion of Shirley Basin, Albany, and Carbon Counties, Wyoming.

- \* RISLEY, R.G., Jr.** - 1961 - Structural geology of Byron-Garland anticlines, Park and Big Horn Counties, Wyoming.
- RITTLE, K.A.** - 1993 - Arsenic and heavy metal immobilization through bacterial sulfate reduction.
- \* RITZMA, H.R.** - 1949 - Geology along the southwest flank of the Sierra Madre, Carbon County, Wyoming.
- \* RIVA, J.P., Jr.** - 1959 - The geology of the Sheep Creek-Middle Cottonwood Creek area, Fremont County, Wyoming.
- RIVAS, J.Z.** - 1993 - 3-D seismic structural and attribute interpretation in Ceuta Field, western Venezuela.
- ROBERTSON, R.A.** - 1961 - Precambrian rocks of the Windmill Islands, Budd Coast, Antarctica.
- ROBINSON, J.R.** - 1956 - The ground-water resources of the Laramie area, Albany County, Wyoming.
- ROCHETTE, E.A.** - 1987 - Chemical weathering in the West Glacier drainage basin, Snowy Range, Wyoming: implications for future acid deposition.
- \* ROEHLER, H.W.** - 1958 - Geology of Bates Hole, Wyoming.
- \* ROTH, K.W.** - 1955 - Stratigraphy of the pre-Frontier Cretaceous rocks in the Rattlesnake Hills, southwestern Natrona County, Wyoming.
- ROWE, D.W.** 1987 - Structural and petrologic history of northeastern Tobago, West Indies: a partial cross section through a composite oceanic arc complex.
- \* ROYSE, F., Jr.** - 1957 - Geology of the Pine Creek Pass area, Big Hole Mountains, Teton and Bonneville Counties, Idaho.
- RUDKIN, G.T.** - 1986 - Depositional environments and sand body morphologies of the Muddy Sandstone, west flank Bighorn Basin, Park County, Wyoming.
- \* RUEHR, B.B.** - 1961 - Geology of the Devil's Gate area, Albany and Carbon Counties, Wyoming.
- RUPPEL, E.T.** - 1950 - Geology of the Limestone Hills, Broadwater County, Montana.
- RYAN, D.C.** - 1981 - Foraminiferal biostratigraphy and paleoecology of the Cody Shale, Upper Slide Lake, Jackson Hole, Wyoming.
- SACRISON, W.R.** - 1958 - A study of the Jurassic Unkpapa Sandstone of the Black Hills region, western South Dakota and eastern Wyoming.
- SAHAI, S.K.** - 1976 - Thermal cracking of alkane (C<sub>42</sub>H<sub>94</sub>) and thermal conductivity studies of carbonates and sandstones.
- SALAT, T.S.** - 1989 - Provenance, dispersal, and tectonic significance of the Evanston Formation and Sublette Range Conglomerate, Idaho-Wyoming thrust belt.
- \* SALISBURY, G.P.** - 1948 - Structural geology of the Elk Basin anticline, Park County, Wyoming, and Carbon County, Montana.

- SANDS, C.D.** - 1976 - Mineralogy and diagenesis in Deep Sea Drilling Project cores, sites 146 and 323.
- \* **SAULNIER, G.J.** - 1968 - Ground-water resources and geomorphology of the Pass Creek Basin area, Albany and Carbon Counties, Wyoming
- \* **SCHMIDT, T.G.** - 1983 - Precambrian metavolcanic rocks and associated volcanogenic mineral deposits of the Fletcher Park and Green Mountain areas, Sierra Madre, Wyoming.
- SCHMITT, J.G.** - 1979 - Description and interpretation of silicified skeletal material from the Park City Formation (Permian) of Wyoming.
- SCHMITT, J.G.** - 1982 - PhD - Origin and sedimentary tectonics of Upper Cretaceous Frontier Formation conglomerates, in the Wyoming - Idaho - Utah Thrust Belt.
- SCHOCK, W.W., Jr.** - 1975 - Relations between stream sediment and source rock mineralogy, Piney Creek Basin, western Wyoming.
- SCHOCK, W.W., Jr.** - 1982 - PhD - Stratigraphy and paleontology of the lower Dinwoody Formation, and its relation to the Permian-Triassic boundary in western Wyoming, southeastern Idaho, and southwestern Montana.
- \* **SCHOEN, R.** - 1953 - Geological report on the Cooper Hill mineral district, Carbon County, Wyoming.
- SCHOENFELD, M.J.** - 1969 - Quaternary geology of the Burnt Fork area, Uinta Mountains, Summit County, Utah.
- SCHUSTER, J.E.** - 1972 - Distribution of copper and the platinum group in mafic rocks of the Sierra Madre, Carbon County, Wyoming.
- \* **SCHWARBERG, T.M., Jr.** - 1959 - The geology of Muddy Mountain, southeast Natrona County, Wyoming.
- \* **SCOTT, R.W.** - 1961 - Geology of Rabbit Ears Pass area, Jackson and Grand Counties, Colorado.
- SEARS, J.W.** - 1973 - Structural geology of the Precambrian Grand Canyon Series, Arizona.
- \* **SEARS, W.A., Jr.** - 1949 - Geology of the Deer Creek-Smith Creek area, Converse and Natrona Counties, Wyoming.
- SERBECK, J.W.** - 1981 - Foraminiferal paleoecology of the Sage Breaks Shale, Centennial Valley, Wyoming.
- SEVER, C.K.** - 1975 - Structural geology for the Sheephead Mountain area, Carbon County, Wyoming.
- SEVERN, W.P.** - 1959 - Stratigraphy of late Upper Cretaceous, Paleocene, and early Eocene deposits within the east flank of the Rock Springs uplift, Sweetwater County, Wyoming.
- SHANLEY, J.B.** - 1989 - PhD - Factors controlling sulfate retention and transport in a forested watershed in the Georgia Piedmont.
- \* **SHEFFER, B.D.** - 1951 - Geology of the western Alcova area.

- \* **SHERER, R.L.** - 1969 - PhD - Nephrite deposits of the Granite, the Seminoe, and the Laramie Mountains, Wyoming.
- SHERIFF, S.D.** - 1981 - PhD - Paleomagnetic studies in Wyoming: the Leucite Hills volcanic field, the Rattlesnake Hills volcanic field, and the Green River Formation.
- \* **SHIPP, B.G.** - 1959 - Geology of an area east of Bates Hole, Carbon and Albany Counties, Wyoming.
- \* **SHLEMON, R.J.** - 1959 - Geology of Red Spring anticline, Hot Springs County, Wyoming.
- \* **SHOEMAKER, R.W.** - 1936 - The geology of the Shirley and Seminoe Mountains area, Carbon County, Wyoming.
- \* **SHORT, B.L.** - 1958 - A geologic and petrographic study of the Ferris-Haggarty mining area, Carbon County, Wyoming.
- SHUSTER, M.W.** - 1986 - PhD - The origin and sedimentary evolution of the northern Green River Basin, western Wyoming.
- \* **SIKICH, S.W.** - 1960 - Stratigraphy of the Upper Triassic Stanaker Formation of the eastern Uinta Mountains area, northeastern Utah and northwestern Colorado.
- SIMNACHER, F.** - 1970 - Stratigraphy, depositional environments, and paleontology of the Cathedral Bluffs Tongue of the Wasatch Formation, Parnell Creek area, Sweetwater County, Wyoming.
- \* **SIMS, F.C.** - 1948 - Geology of the west end of the Laramie Range, Natrona County, Wyoming.
- SINGER, B.S.** - 1990 - PhD - Petrology and geochemistry of mid-Pleistocene lavas from Seguam Island, central Aleutian Island, Alaska—implications for the chemical and physical evolution of oceanic island arc magmatic centers.
- SIPE, D.R.** - 1984 - Depositional environments and origin of bounding surface in the Ingleside Formation, Livermore area, Colorado.
- SIPPEL, K.N.** - 1982 - Depositional and tectonic setting of the Ephraim Formation, southeastern Idaho and western Wyoming.
- SKINNER, O.L.** - 1982 - Foraminiferal biostratigraphy and correlation of the lower part of the Hilliard Shale and equivalents, southwestern Wyoming and northeastern Utah.
- SMITH, A.L.** - 1985 - Correlation of Monterey Formation organic geochemistry to lithology, Santa Maria - Santa Barbara Basins, California.
- \* **SMITH, B.D.** - 1967 - Geologic and geophysical investigation of an area of Precambrian rocks, central Laramie Range, Albany County, Wyoming.
- SMITH, C.L.** - 1974 - PhD - Chemical controls on weathering and trace metal distribution at Teels Marsh, Nevada.
- \* **SMITH, J.R.** - 1957 - Petrography of the Frontier Formation in the southeastern Bighorn Basin, Hot Springs and Washakie Counties, Wyoming.
- SMITH, L.K.** - 1993 - PhD - Aspects of oilfield water chemistry: Part A. Induced diagenetic alteration. Part B. The effect of organic alkalinity on cation ratios.

- \* **SMITHSON, S.B.** - 1959 - The geology of the southeastern Leucite Hills, Sweetwater County, Wyoming.
- SORENSEN, G.E., Jr.** - 1961 - Geology of the Thousand Springs Valley area, Madison and Teton Counties, Idaho.
- SOWERS, N.R.** - 1979 - Geologic factors affecting the geohydrology of the Tongue River valley, Sheridan County, Wyoming.
- SPALDING, R.W.** - 1928 - Minor movements of the Earth's crust during the Pennsylvanian period in the Laramie Basin region.
- SPEECE, M.A.** - 1992 - PhD - Geophysical studies in Precambrian regions: the Laramie Mountains, Wyoming, and the Godthabsfjord area, southern west Greenland.
- \* **SPELMAN, A.R.** - 1959 - Geology of the area between Bed Tick Creek and the west fork of La Bonte Creek Converse County, Wyoming.
- SPENCER, S.A.** - 1986 - Groundwater movement in the Paleozoic rocks and impact of petroleum production on water levels in the southwestern Bighorn Basin, Wyoming.
- SPERR, J.T.** - 1985 - Xenoliths of the Leucite Hills volcanic rocks, Sweetwater County, Wyoming.
- SPIEGEL, R.W.** - 1991 - Geohydrology of Top of the World Provincial Park, British Columbia: geomorphic and structural controls on the development of karst.
- STACY, M.E.** - 1994 - Karstic groundwater circulation in the fault-severed Madison aquifer in the Casper Mountain area of Natrona County, Wyoming.
- STARKEY, C.** - 1939 - A late Upper Cretaceous invertebrate fauna of southeastern Wyoming.
- STARKEY, K.J.** - 1987 - Geology, petrography, chemistry, and petrogenesis of the Nannies Peak intrusive complex, Elko County, Nevada.
- STARKEY, R.J., Jr.** - 1988 - PhD - Low-grade metamorphism of the Karmutsen Volcanics, Vancouver Island, British Columbia.
- STEELE, K.K.** - 1985 - Stratigraphy, depositional environment, and petrology of the Battle Spring Formation in the Green Mountain area, central Wyoming.
- \* **STENSURUD, H.L.** - 1963 - Geology of the Lake Owen Mafic Complex, Albany County, Wyoming.
- STEPHEN, J.N.** - 1952 - Upper Devonian organic reef at Golden Spike, Alberta, Canada.
- STEPHENS, E., Jr.** - 1958 - Intensity distribution study and fault plane solution for the Cape Mendocino, California, earthquake of October 11, 1956.
- \* **STOCK, M.D.** - 1981 - The geohydrology of the shallow aquifers in the vicinity of Old Woman anticline, Niobrara County, Wyoming.
- \* **STUART, W.J., Jr.** - 1963 - Stratigraphy of the Green River Formation west of the Rock Springs uplift, Sweetwater County, Wyoming.
- SUKUP, J.W.** - 1978 - Cretaceous planktonic foraminifera from Salzgitter-Salder, West Germany.

- SUNDELL, K.A.** - 1980 - The geology of the North Fork of Owl Creek area, Absaroka Range, Hot Springs County, Wyoming.
- \* **SUYDAM, R.B.** - 1963 - Overthrusting in the south La Barge Creek area, Lincoln and Sublette Counties, Wyoming.
- \* **SWAIN, B.W.** - 1957 - Fort Union Formation, west flank of the Sierra Madre, Carbon County, Wyoming.
- \* **SWAUGER, D.A.** - 1982 - Geology and structure of the Green River Lakes area, Sublette County, Wyoming.
- SWENSON, R.F.** - 1991 - Analysis of a fault-fold system in the southern Pequop Mountains, Elko County, Nevada.
- \* **SWETNAM, M.N.** - 1961 - Geology of the Pelton Creek area, Albany and Carbon Counties, Wyoming.
- SWIFT, P.N.** - 1982 - Precambrian metavolcanic rocks and associated volcanogenic mineral deposits of the southwestern Sierra Madre, Wyoming.
- \* **SYLVESTER, G.H.** - 1973 - Depositional environment of diamictites in the Headquarters Formation, Medicine Bow Mountains, southeastern Wyoming.
- TALBOT, C.L.** - 1967 - Modern evaporite origin at Howell and Soap Hole Lakes, Albany County, Wyoming.
- \* **TAUCHER, L.M.** - 1953 - Geology of the Cookstove Basin area, Big Horn County, Wyoming.
- TAUCHER, P.J.** - 1988 - Reprocessing and interpretation of high resolution seismic reflection data from a uranium exploration prospect in the Granite Mountains area of central Wyoming.
- TAUCHER, S.E.G.** - 1986 - Distribution and paleoecology of benthic foraminifera from the Upper Cretaceous lower Hilliard Shale, Blazon Gap, southwestern Wyoming.
- TAYLOR, D.J.** - 1978 - Reflection seismic study in the Laramie anorthosite complex, southern Laramie Range, Wyoming.
- TAYLOR, M.W.** - 1978 - Mineral reactions in the tuffaceous sediments at Teels Marsh, Nevada.
- TEBBUTT, G.E.** - 1964 - Lithogenesis of a distinctive Permian carbonate fabric, Big Horn and Washakie Counties, Wyoming.
- TEMPLETON, M.E.** - 1993 - PhD - Seismic profiling of the Cheyenne Belt, Medicine Bow Mountains, Wyoming, and the effects of CDP processing on the lateral resolution of reflection data.
- THOMAS, H.D.** - 1928 - Geology and deformation of the Centennial Valley, Wyoming.
- THOMPSON, K.S.** - 1979 - Prediction of water level declines in the Casper aquifer in the vicinity of Laramie, Wyoming.
- THOMPSON, R.M.** - 1950 - Stratigraphic sections of pre-Cody Upper Cretaceous rocks in central Wyoming.

- THYNE, G.D.** - 1991 - PhD - The early diagenesis of the Cardium Sandstone, Alberta, Canada, and calculations of the effect of organic acids on clastic diagenesis.
- TODD, L.M.** - 1991 - The "Nowood problem" in early Permian strata of north-central Wyoming.
- TOMBAUGH, K.** - 1974 - Biostratigraphy of the Permian Shedhorn Sandstone and Ervay and Franson Members of the Park City Formation, southeastern Gros Ventre Mountains, Wyoming.
- \* **TOOGOOD, D.J.** - 1967 - Repeated folding in the Precambrian basement of the Laramie Mountains, Albany and Platte Counties, Wyoming.
- TOOTS, H.A.** - 1962 - Paleoeological studies of the Mesaverde Formation in the Laramie Basin.
- TOOTS, H.A.** - 1965 - PhD - Reconstruction of continental environments, the Oligocene of Wyoming.
- TRELOAR, N.A.** - 1985 - Viscous remanent acquisition at deep crustal temperature.
- TROMP, P.L.** - 1981 - Stratigraphy and depositional environments of the "Leo Sands" of the Minnelusa Formation, Wyoming and South Dakota.
- \* **TROTTER, J.F.** - 1954 - Geology of the Nowood Creek-Ten Sleep area, Washakie County, Wyoming.
- \* **TROYER, M.L.** - 1951 - Geology of the Lander (Hudson) and Plunkett anticline and vicinity, Fremont County, Wyoming.
- \* **TUDOR, M.S.** - 1952 - Geology of the west-central flank of the Laramie Range, Albany County, Wyoming.
- UHRIE, J.L.** - 1993 - In-situ immobilization of heavy metals associated with uranium leach mines.
- ULTEIG, J.R.** - 1963 - Upper Niagaran and Cayugan stratigraphy of north Ohio and adjacent areas.
- \* **UMBACH, E.D.** - 1948 - Geology of the Sage Creek area, Carbon County, Wyoming.
- UMBACH, P.H.** - 1935 - History of the geographical and geological explorations in Wyoming prior to 1900.
- UNFER, L., Jr.** - 1951 - Study of factors influencing the rank of Wyoming coals.
- VALASEK, P.A.** - 1987 - Processing and interpretation of seismic reflection data from two Cordilleran metamorphic core complexes; the Ruby Mountains-East Humboldt Range, Nevada and the Picacho Mountains, Arizona.
- \* **VALENTI, G.L.** - 1980 - Structural geology of the Laketown Quadrangle, Rich County, Utah.
- \* **VAN INGEN, L.B.** - 1978 - Structural geology and tectonics Troublesome Creek valley area, Carbon County, Wyoming.
- \* **VARGAS, R.** - 1974 - Photogeologic map of the Jelm Mountain Quadrangle, Albany County, Wyoming, prepared from color infrared imagery.



- \* **VIETTI, B.T.** - 1977 - The geohydrology of the Black Butte and Canyon Creek areas, Bighorn Mountains, Wyoming.
- \* **VIETTI, J.S.** - 1974 - Structural geology of the Ryckman Creek anticline area, Lincoln and Uinta Counties, Wyoming.
- VINTON, R.P.** - 1976 - Gravity studies in uranium districts, southern Powder River Basin, Wyoming.
- \* **VOORHEES, G.E.** - 1963 - Upper Cretaceous stratigraphy and overthrusting in the Deadman, Blind Bull, and Horse Creek area, Lincoln County, Wyoming.
- VOORHIES, M.R.** - 1966 - PhD - Taphonomy and population dynamics of an early Pliocene vertebrate fauna, Knox County, Nebraska.
- WADE, S.C.** - 1990 - A laboratory study of anisotropy of magnetic susceptibility.
- \* **WALKER, C.L.** - 1943 - Geology of the Cumberland Reservoir-Little Muddy Creek area, Lincoln and Uinta Counties, Wyoming.
- WALKER, D.A.** - 1991 - Reflection seismic data from the 1986 Nevada Passcal experiment.
- WALLEM, D.B.** - 1981 - Environmental, diagenetic, and source rock analysis of the Bear River Formation, western Wyoming.
- WALSH, M.H.** - 1957 - A study of the Ordovician basal Bighorn sandstone of the central and northern Big Horn [sic] Mountains, Wyoming.
- \* **WALTERS, R.F.** - 1953 - Geology of the Independence Mountain area, North Park, Colorado.
- WANG, D.** - 1990 - PhD - Recovery of zero-offset reflectivity from constant velocity aperture-compensated migration/inversion method.
- WANG, Y.** - 1992 - Velocity study of overpressured zones in the Powder River Basin of Wyoming using sonic logs.
- \* **WARE, D.C.** - 1982 - Amphibolite complex of the Blackhall Mountain area, southeastern Sierra Madre, Wyoming.
- WEICHMAN, B.E.** - 1958 - Stratigraphy of the Phosphoria Formation in the southern portion of the Wind River Basin, Wyoming.
- WEICHMAN, D.A.** - 1988 - Depositional environment, provenance, and tectonic significance of the Hanna Formation in Pass Creek Basin, Carbon County, Wyoming.
- WEIGHT, W.D.** - 1989 - PhD - Knowledge-based computer systems for two topics in geology: micron gold deposits and planning geological sampling procedures.
- \* **WEIMER, R.J.** - 1949 - Geology of the Whiskey Gap-Muddy Gap area, Wyoming.
- WELLS, R.A.** - 1975 - Structural analysis of Precambrian rocks in northeastern Badwater Quadrangle, Wyoming.
- \* **WELSH, J.E.** - 1951 - Geology of the Sheep Mountain-Delaney Butte area, North Park, Colorado.
- \* **WEST, C.M.** - 1984 - Stratigraphy and depositional environments of the lower Sundance Formation, eastern Bighorn Basin, Wyoming.

- WESTERVELT, T.N.** - 1979 - Structural superposition in the Lake O'Hara region, Yoho and Kootenay National Parks, British Columbia, Canada.
- WHEELOCK, T.G.B.** - 1971 - Jurassic ophiuroid echinoderms from Utah and Wyoming.
- WHITAKER, R.M.** - 1972 - Grain size distributions and depositional processes of the Casper Formation (Pennsylvanian-Permian), southern Laramie Basin, Wyoming.
- WHITE, R.K.** - 1961 - Foraminifera from two sections of the Cody Shale, central Wyoming.
- \* **WHITE, V.L.** - 1951 - Geology of Dallas anticline, Fremont County, central Wyoming.
- \* **WIED, O.J.** - 1960 - Geology of the Encampment area, Carbon County, Wyoming.
- WIEGMAN, R.W.** - 1964 - Late Cretaceous and early Tertiary stratigraphy of the Little Mountain area, Sweetwater County, Wyoming.
- WIERSMA, U.M.** - 1989- Structural obstruction of recharge to the Paleozoic Aquifer, Denver-Julesburg Basin along the Laramie Range, Wyoming.
- WILKINSON, B.H.** - 1967 - Paleocology of the Permian Ervay Member of the Park City Formation in north-central Wyoming.
- WILLIAMS, J.D.** - 1987 - Provenance and depositional controls on the diagenesis of sandstones associated with the Laney Member of the Green River Formation, southwestern Wyoming.
- WILLIAMS, M.C.** - 1985 - Magnetic properties of the Archean Pikwitonei crustal cross section, Manitoba, Canada.
- \* **WILLIAMS, W.C.** - 1980 - Precambrian geology of the Dinwoody Lakes region, Wind River Range, Fremont County, Wyoming.
- \* **WILLIS, R.P.** - 1953 - Geology of the Porcupine Creek area, Big Horn County, Wyoming.
- \* **WILLS, J.G.** - 1955 - Geology of the Pine Mountain area, Natrona County, Wyoming.
- WILSON, B.D.** - 1975 - The origin of slaty cleavage and associated structure, Precambrian Lookout schist, Medicine Bow Mountains, Wyoming.
- WILSON, J.B.** - 1951 - Stratigraphy of the Sussex Sandstone, Powder River Basin, Wyoming.
- \* **WILSON, R.W.** - 1951 - Ground-water investigation of a portion of the Kendrick project, Natrona County, Wyoming.
- WILSON, S.L.** - 1984 - Structure and nature of the shallow basement beneath the Hardeman Basin, Oklahoma, as revealed by COCORP seismic reflection surveys.
- WILSON, W.H.** - 1950 - The Casper Formation in the Red Buttes area.
- WINSLOW, N.S.** - 1986 - Timing and tectonic significance of Upper Jurassic and Lower Cretaceous nonmarine sediments, Bighorn Basin, Wyoming and Montana.
- WINTERFELD, G.F.** - 1979 - Geology and mammalian paleontology of the Fort Union Formation, eastern Rock Springs uplift, Sweetwater County, Wyoming.
- WINTERFELD, G.F.** - 1986 - PhD - Laramide tectonism, deposition, and early Cenozoic stratigraphy of the northwestern Wind River Basin and Washakie Range, Wyoming.

- WOLBERG, P.W.** - 1983 - Structural geology of the Montpelier Canyon Quadrangle, Bear Lake County, Idaho.
- WOLF, G.H.** - 1938 - The fauna of the Lewis Formation.
- WOLFBAUER, C.A.** - 1972 - PhD - Chemical petrology of non-marine carbonates in the western Bridger Basin, Wyoming.
- \* **WOOD, C.B.** - 1966 - Stratigraphy and paleontology of the Bridger Formation northeast of Opal, Lincoln County, Wyoming.
- WOODFILL, R.D.** - 1968 - A gravity investigation of Precambrian crystalline rocks, Squaw Rock area, Albany and Platte Counties, Wyoming.
- WOODS, T.F.** - 1987 - Processing and interpretation of CDP, VSP, and sonic log data acquired in the Rio Grande Rift, Dona Ana County, New Mexico.
- \* **WORKUM, R.H.** - 1959 - The stratigraphy of the Mesaverde Formation of the west flank of the Casper Arch, Natrona County, Wyoming.
- \* **WORL, R.G.** - 1963 - Superimposed deformations in Precambrian rocks near South Pass, Wyoming.
- WORL, R.G.** - 1968 - PhD - Taconite and migmatite in the northern Wind River Mountains, Fremont, Sublette, and Teton Counties, Wyoming.
- \* **WORRALL, D.M.** - 1975 - Structural geology of the Round Mountain area, Uinta County, Wyoming.
- \* **WROBLE, J.L.** - 1963 - Stratigraphy and sedimentation of the Popo Agie, Nugget, and Sundance Formations in central Wyoming.
- YATKOLA, D.A.** - 1972 - Middle Miocene environments of western Nebraska and adjacent states.
- YIN, P.** - 1988 - PhD - Generation and accumulation of hydrocarbons in the Gippsland Basin, southeastern Australia.
- YINGLING, V.L.** - 1987 - Timing of initiation of the Sevier Orogeny: Morrison and Cedar Mountain Formations and Dakota Sandstone, east-central Utah.
- YONKEE, W.A.** - 1983 - Mineralogy and structural relationships of cleavage in the Twin Creek Formation within part of the Crawford thrust sheet in Wyoming and Idaho.
- \* **YORK, H.F.** - 1954 - Geology of the Elk Mountain anticline, North Park, Colorado.
- YOSE, L.A.** - 1987 - Autocyclic versus allocyclic controls on deposition of a mixed-clastic outer-platform-to-basin sequence: Middle to Upper Pennsylvanian of southeastern California.
- YOUNG, K.P.** - 1942 - A summary of the evidence of the Laramide revolution, Colorado and Wyoming.
- YOUNUS, M.** - 1992 - Ground water circulation and vertical mixing in the principal aquifers in the southern part of the Laramie Basin, Albany County, Wyoming.
- YULE, J.D.** - 1988 - Petrology and structure of south-central Tobago, West Indies: part of a displaced fragment of a Mesozoic oceanic island arc terrane.

- \* **ZAKIS, W.N.** - 1950 - Geology of the east flank of the Bighorn Mountains near Dayton, Sheridan County, Wyoming.
- ZAWISLAK, R.L.** - 1980 - PhD - Laramide deformation and problems of deep crustal reflection profiling encountered in the Wind River COCORP line, Wyoming.
- ZELL, R.** - 1959 - A Mississippian coral assemblage from Darby Canyon, Teton County, Wyoming.
- ZIEGLER, T.L.** - 1993 - Variability of radon gas levels in soils, Laramie area, Albany County, Wyoming.
- \* **ZOBLE, J.E.** - 1957 - Stratigraphy of the Cretaceous Cloverly Formation and Crooked Creek Member of the Thermopolis Formation in the northeastern Big Horn [sic] Basin, Carbon County, Montana.
- \* **ZOERNER, F.P.** - 1974 - The geology of the central Elk Mountains, Colorado

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**Canyonlands National Park (Utah)** — Loope; Richter

**Cape Mendocino (California)** — Stephens

**Carbon County** — Allspach; Anderson, J.E.; Ashley; Baker, G.K.; Baldwin, H.T.; Banks; Barlow (1953); Barton; Basko; Bauer; Berg W.R.; Bergstrom; Berry; Bierei; Bishop; Blevins; Bohn; Brooks, K.J.; Brown, O.P.; Buehner; Carey (1950); Carpenter; Chadeayne; Childers; Clarey; Cody; Cooper; Davidson, P.S.; Davis, J.R. (1963, 1966); Del Mauro; DeNault; Dimitroff; Dunbar; Espenschied; Ferren; Ferris; Finnell; Fox; Gardner; Gaylord; Gist; Good; Graff; Graveson; Gries; Guyton (1960); Gwinner; Hamilton; Heisey; Huang; Hubbell; Hughes; Irwin; Isberg; Johnson, S.A.; Karasa; Karlstrom (1977, 1981); King, J.S.; Kirschner; Knight; Koenig, A.A., Jr.; Kopriva; Kratochvil; Lackey; Lageson (1977); Landau; Lawson; Le Febre, G.B.; McCallum; McDavid; McElhaney; Maravich; Master; Matus; Merry; Mescher; Miller, W.R. (1971); Montagne (1955); Mueller, R.E.; Myers, W.G.; Neely; Novachovich; Oliver; Oster; Oviatt; Peterson; Price; Ridgley, N.H.; Riedl; Ritzma; Roehler; Ruehr; Saulnier; Schmidt; Schoen; Schuster; Sever; Sherer; Shipp; Shoemaker; Short; Swain; Swetnam; Swift; Sylvester; Umbach, E.D.; Van Ingen; Ware; Weichman, D.A.; Weimer; Wied

**Carbon Basin** — Brooks, K.J.; Davidson, P.S.; Denault

**Cardium sandstone (Canada)** — Thyne

**Carter Mountain area (Park County)** — Eaton, J.G.

**Casper aquifer (Albany County)** — Lundy; Thompson, K.S.

**Casper area (Natrona County)** — Bergstrom (1950); Dengo

**Casper Arch** — Wills; Workum

**Casper Formation** — Benniran; Diehl, J.F.; Hansen; Haywood; Heiman (1972); Hensley; Kim; Lundy; Pederson; Thompson, K.S.; Whitaker; Wilson, W.H.

**Casper Mountain** — Bergstrom (1950); Stacy

**Castle Rock Quadrangle (Fremont County)** — Conard

**Cataclastic rocks** (see shear zones)



**Cathedral Bluff Tongue (Wasatch Formation)** – Simnacher

**Caves** – Deal

**Cavity detection** – Lowry

**Cayugan Stage (Ohio)** – Ulteig

**Cedar Mountain Formation (Utah)** –Yingling

**Cedar Ridge anticline (Carbon County)** – Chadeayne

**Cenozoic** (see also individual epochs and formations) – Dickey; Flanagan, K.M.; Gries; Montagne (1955); Winterfield (1986)

**Centennial Valley area (Albany County)** – Atherton; Montagne (1951); Serbeck; Thomas

**Ceuta field (Venezuela)** – Rivas

**Chadron Formation (Nebraska)** – Gjellesten

**Chainman Shale (Nevada)** – Barrett

**Channel deposits** – Grant

**Chemical weathering** – Blum; Hurcomb; Mast; Miller, W.R. (1974); Smith, C.L.

**Cheyenne belt (southeastern Wyoming)** – Duebendorfer; Huang; McCallum; Merry; Mueller, R.E.; Templeton

**Chinle Formation (Utah)** – Groth

**Chugwater Creek valley (Albany County)** – Edwards, A.R.

**Chugwater Formation (Group)** – Gardner; Huycke; Irwin

**Circle Bar Lake Quadrangle (Sweetwater and Fremont Counties)** – Jackson

**Clark - Hinman Park area (Routt County, Colorado)** – Fenton; McConnell

**Clark Quadrangle (Routt County, Colorado)** – Fenton

**Clay Spur bentonite district (Crook and Weston Counties)** – Davis, J.C. (1963)

**Clinker (baked rock)** – Minnich

**Cloverly Formation** – Espenschied; Hoodmaker; MacClintock; Osmond; Oster; Zoble

**Coal** – Berg, W.R.; Cunningham; García-González (1993); Kopriva; Mason, J.M.; McElhaney; Unfer; Voorhees

**Coal gasification** – Kopriva; Mason

**Coal rank** – Unfer

**Cobalt** – Myers, J. (1978)

**COCORP** – Branch; Iverson; Lu; May; Wilson, S.L.; Zawislak

**Cody Shale (Formation)** – Perez; Prochaska; Ryan; White, R.K.

**Cojitambo area, Province of Canar (Ecuador)** – Repetto

**Collapse breccia pipe** – Loughlin

**Colombia (Tolu area)** - García-González (1991)

**Colorado** — Baker, K.H.; Barnes; Barnwell; Beatty; Bergstresser (1978,1981); Bernaski; Bozanic; Breckenridge (1969); Buelow; Conley; Diehl, J.F.; Ebens (1966); Elias; Fenton; Fredrickson; Hager; Hallin; Hanley; Heyman; Hoodmaker; Hunter, J.M.; Isaacson; Kimball; Kirn; Kiver; Knapp; Kornegay; Krosky; Lehrer; Lundell; McConnell; McGookey; Manion, L.J.; Manion, R.E.; Maret; Mariner (1967); Marks; Mayrand; Minick; Moncure (1979); Montagne (1955); Moore; Murphy, R.W.; Osterwald, D.B.; Pearson; Pederson; Scott; Sikich; Sipe; Walters; Welsh; York; Young; Zoerner

**Colorado Plateau-Basin and Range transition zone (Utah)** — Londe

**Columbia River Plateau** — Fuller (1987)

**Commissary Ridge area (Bonneville County, Idaho)** — Moran

**Como Bluffs area (Albany and Carbon Counties)** — Baker, G.K.; Dunbar; Eaton, G.M.; Giddings

**Comodoro Rivadavia Formation (Argentina)** — Dunn (1992)

**Computer applications** — Hudson; Isbell; Weight

**Conductivity** — Medlin

**Conglomerates** — Graff; Gwinner; Kratochvil; Schmitt (1982)

**Conodonts** — Heiman (1972)

**Converse County** — Barlow (1950); Berryman, R.J.; Coughlan; Drwenski; Gaylord (1981); Goodwin, C.N.; Harris; Kron; Mort; Sears, W.A.; Spelman; Vinton

**Cookstove Basin area (Big Horn County)** — Taucher, L.M.

**Cooney Hills area (Platte County)** — Bothner

**Cooper Hill mining district (Carbon County)** — Schoen

**Copper** — Denault; Patel, C.B.; Schuster

**Copper King Mine (Laramie County)** — McGraw

**Copper Mountain** — Gliozzi

**Corals** — DeJarnett; Zell

**Corral Creek area (Natrona County)** — Jenkins, C.E.

**Cottonwood Creek area (Fremont County)** — Riva

**Cow Creek area (Sierra Madre)** — Hughes; Price

**Crawford Thrust (western Wyoming)** — Yankee

**Creede (Colorado)** — Mayrand

**Crescent Lake area (Wind River Range)** — Marshall

**Cretaceous** (see also individual formations) — Adams; Anderson, J.E.; Atherton; Badgley; Barwin; Batt; Beatty; Bergstresser; Bergstrom (1954); Bierei; Brain; Carlisle; Cody; Coughlan; Curry; Davidson, P.S.; Davis, J.C. (1967); Davis, J.R. (1963, 1966); Dickey; Fox; Fuller (1988); Gillespie; Grave; Granata; Hale; Heydenburg; Hill; Hoodmaker; Hunter, L.D.; Jiao; Keller; MacClintock; Madson; McClurg; Moncur, R.S.; Nace; Ochoa; Osmond; Oster; Parker; Perez; Prochaska; Roth; Rudkin; Ryan; Schmitt (1982); Serbeck; Severn; Sippel; Skinner; Smith, J.R.; Starkey, C.; Sukup; Taucher, S.E.G.; Thompson, R.M.; Toots (1962); Voorhees; Wallem; White, R.K.; Wiegman; Wilson, J.B.; Winslow; Wolf; Workum; Zoble

**Crook County** — Davis, J.C. (1963); Husain

**Crustal study** (see also COCORP) — Boyd; Burke; Iltis; Johnson, R.A.; Larkin; McCullar; Taylor, D.J.; Williams, M.C.; Wilson, S.L.

**Crystal Creek area (Big Horn and Sheridan Counties)** — Cardinal

**Cumberland Gap area (Lincoln and Uinta Counties)** — Lawrence

**Cumberland Reservoir area (Lincoln and Uinta Counties)** — Walker

**Cutler Formation (Utah)** — Denis

**Dakota Sandstone (Utah)** — Yingling

**Dallas anticline (Fremont County)** — White, V.L.

**Darby Canyon area (Teton County)** — Zell

**Dawson County (Texas)** — Cozzens

**Dayton area (Sheridan County)** — Zakis

**Deadman area (Lincoln County)** — Voorhees

**Deep Gulch Conglomerate** — Kratochvil

**Deep Lake Group** — Karlstrom (1977,1981)

**Deer Creek area (Converse and Natrona Counties)** — Berryman, R.J.; Sears, W.A., Jr.

**Deep Sea Drilling Project** — Heiman; Pokras; Sands

**Deflation** — Loope

**Delaney Butte area (North Park, Colorado)** — Welsh

**Denver-Julesburg Basin** — Babits; Copland; Reinke; Wiersma

**Depositional environments** (see paleoenvironments)

**Devil's Gate area (Albany and Carbon Counties)** — Ruehr

**Devonian** (see also individual formations) — Stephen

**Diagenesis** — Aguado; Burch; Crossey; Coughlan; Edman; Fischer; García-González (1991); Jiao; Kablanow (1983); Knapp; Lageson (1977); Loope; MacGowan; Manske; Moncur; Moncure (1980); Moraes; Nice; Pacht; Pearson; Perez; Sands; Smith, L.K.; Tebbutt; Thyne; Wallem

**Diamictites** — Sylvester

**Diamond Park area (Routt County, Colorado)** — Murphy, R.W.

**Diatremes** (see also Leucite Hills) — Marks

**Difficulty area (Carbon County)** — Brown, O.P.; Johnson, S.A.

**Dilts Ranch area (Converse County)** — Kron

**Dinwoody Formation** — Johnston, J.C.; Partridge; Schock (1982)

**Dinwoody Lakes area (Fremont County)** — Williams, W.C.

**Dona Ana County (New Mexico)** — Woods

**Donnelly Ranch vertebrate site (Colorado)** — Hager  
**Douglas Creek Arch (Colorado and Utah)** — Moncure (1979)  
**Dry Creek area (Fremont County)** — Ellerby  
**Dry Valley region (South Victoria Land, Antarctica)** — Bucher; Fikkan  
**DuNoir area (Fremont County)** — Keefer, W.R. (1956)  
**Eagle Creek area (Park County)** — Galey  
**Earthquakes** — Chambers; Stephens  
**East Humboldt Range (Elko County, Nevada)** — Hurlow; Valasek  
**Ebro Basin (Spain)** — Burns  
**Echinoderms** — Wheelock  
**Ecuador** — Repetto  
**Elk Basin anticline (Bighorn Basin)** — Salisbury  
**Elk Basin oil field (Bighorn Basin)** — Heasler (1978)  
**Elk Draw gas field (Powder River Basin)** — Moncur, R.S.  
**Elk Hills (Kern County, California)** — Berryman, W.M.  
**Elkhorn Ranch area (Billings and Golden Valley Counties, North Dakota)** — Hanson, B.M.  
**Elk Mountain anticline (North Park, Colorado)** — York  
**Elk Mountain area (Carbon County)** — Dimitroff; Isberg; Novakovich  
**Elk Mountain area (Sublette County)** — Berman  
**Elk Mountains (Colorado)** — Zoerner  
**Elko County (Nevada)** — Hurlow, Jaeger; MacCready; McGrew, A.J.; Starkey, K.J.; Swenson  
**Elko Hills (Elko County, Nevada)** — Jaeger  
**Encampment area (Carbon County)** — Ferris; Patel, C.B.; Wied  
**Enos Creek area (Bighorn Basin)** — Long, E.G.  
**Eocene** (see also individual formations) — Adler; Bay; Bown; Buchheim; Eaton, J.G.; Ebens (1963); Evanoff; Hanley; Lundell; MacCready; Manske; Mason, G.M.; Prichinello; Ratterman; Severn; Sheriff; Simnacher; Steele; Stuart; Weichman, D.A.; Williams, J.D.  
**Eolian activity** — Ahlbrandt; Gaylord (1983); Kolm (1977); Loope  
**Ephemeral stream** — Goodwin, C.N.  
**Ephraim Formation** — Sippel  
**Erosion surfaces** (see also Karst) — Clevén  
**Erway Member (Park City Formation)** — Tombaugh; Wilkinson  
**Evanston Formation** — Salat  
**Evaporites** — Greer; Meyer; Talbot

**Fanny Peak Quadrangle (Wyoming-South Dakota)** — Epstein

**Faults** (see also structure) — Clarey; Chambers; Dudley; Jaworowski (1985); McGee; Stephens

**Fauna** (see paleontology)

**Federal area (Laramie County)** — Brady

**Feldspar, authigenic** — Boles

**Feldspar, plagioclase** — Oxburgh

**Ferris area (Carbon, Fremont, and Sweetwater Counties)** — Gaylord (1983)

**Ferris Formation** — McElhaney

**Ferris-Haggarty mining area (Carbon County)** — Short

**Ferris Mountains** — Bowers; Carpenter; Heisey; Lawson; Master

**Fish Lake Mountain area (Fremont County)** — Dunnewald

**Fish Spring Creek area (Lincoln and Sublette Counties)** — Bragdon

**Flathead Formation (Sandstone)** — Bell, L.H.; Middleton

**Flat Top anticline (Carbon and Albany Counties)** — Blevins; Carey (1950); Knight

**Fletcher Park area (Sierra Madre)** — Schmidt

**Floyd Peak Quadrangle (Routt County, Colorado)** — Fenton

**Fontenelle area (Lincoln and Sublette Counties)** — Hauf

**Foote Creek anticline (Carbon and Albany Counties)** — Dimitroff

**Foraminifera** — Adams; Atherton; Balcells; Baldwin, E.A.; Batt; Beatty; Bergstresser (1978, 1981); Caparco; Cody; Deiss; Dring; Gaskill; Heiman (1977); Le Febre, V.S.; Love, F.R.; Pokras; Prochaska; Ryan; Serbeck; Skinner; Sukup; Taucher, S.E.G.; White, R.K.

**Forester Creek anticline (Larimer County, Colorado)** — Krosky

**Fort Hays Member (Niobrara Formation - Kansas)** — Baldwin, E.A.; Deiss

**Fort Randall dam core (South Dakota)** — Gaskill

**Fort Union Formation** — Hartman; Leite; Mogensen; Swain; Winterfeld (1979)

**Fossils** (see paleontology; specific faunal types)

**Fountain Formation** — Fredrickson; Pederson

**Fourier method** — Miller, S.M.

**Fox Creek area (Albany County)** — Orback

**Fox Hills Sandstone** — Fox

**Franson Member (Park City Formation)** — Tombaugh

**Freezeout Hills (Mountains) (Carbon County)** — Baker, G.K.; Gardner; Gist; Hamilton; Maravich

**Fremont County** — Amos; Balsam; Barwin; Bay; Bell, W.G.; Biggs; Boles; Conard; Deland; Dickey; Doelger; Duhling; Dunnewald; Ellerby; Gilliland; Gliozzi; Gooldy; Grant; Guyton (1960); Hodge (1963); Hummel; Jackson; Karasa; Keefer, W.R. (1956); Keller; Kisling; Long, J.S., Jr.; Love, J.D.; McKay; Phillips; Powell; Prochaska; Riva; Troyer; White, V.L.; Williams, W.C.; Worl (1963, 1968)

**French Creek area (Albany and Carbon Counties)** — Childers; Matus

**Frontier Formation** — Batt; Burk; Haun (1953); Hunter, L.D.; Schmitt (1982); Smith, J.R.

**Gallatin Valley area (Montana)** — Hall

**Gannett Group** — Bowdler

**Garland anticline (Park and Big Horn Counties)** — Risley

**Gastropods** (see also paleontology) — Hanley; Kirschner; Kulas-Adler

**Geochemistry** (see also water chemistry; zeolites; and metamorphism) — Antweiler; Blum; Boles; Burch; Chen; Copeland; Crossey; Dam; DeNault; Edwards, B.R.; García-González (1993); Gloor; Goodwin, J.H.; Herrick; Herrmann; Hoch; Kolm (1975); MacGowan; Manning; Mariner; Martin; Mason, G.M.; Master; Miller, W.R.; Mitchell, J.N.; Mott; Murphy, K.M.; Myers, J.; Ogden; Oxburgh; Patel, S.C.; Ratterman; Ridgley, J.L.; Rittle; Sahai; Sands; Shanley; Singer; Smith, A.L.; Smith, C.L.; Smith L.K.; Starkey, K.J.; Talbot; Taylor, M.W.; Uhrie; Waldon; Wallem; Wolfbauer

**Geochronology** — Cervený

**Georgia Piedmont** — Shanley

**Geomorphology** — Ahlbrandt; Anderson, V.H.; Breckenridge (1969, 1974); Clausen; Cleven; Deal; Doehring; Gaylord; Gilmer; Goodwin, C.N.; Gubbels; Guyton (1965); Hallock; Hanson, B.V.; Jaworowski, C.C. (1985, 1993); Kiver; Kolm (1977); Lehrer; Montagne (1951, 1955); Moore; Murray, W.B.; Oviatt; Paylor; Peitersen; Price; Ramberg; Saulnier; Schoenfeld; Spiegel; Thomas

**Geophysics** — Baker; Balsam; Barron; Berg, R.M.; Black, P.R.; Black, R.A.; Branch; Brown, A.Y.; Bucher; Buelow; Cervený; Clow; Colburn; Cook, F.A.; Cozzens; Deemer; Diehl, J.F.; Diehl, S.B.; Easley, D.H. (1989); Fiki; Fuller (1987, 1988); Hallin; Harder; Heasler; Hurich; Huycke; Iltis; Isaacson; Iverson; Johnson, R.A.; Karasa; Key; Kopriva; Liebes; Love, F.R.; Lowry; Maucione; McCollar; McDonough; Mackenzie; Medlin; Minnich; Morel; Munoz; Ntulanalwo; Oliver, K.L.; Pierson; Pruss; Pujol; Reinke; Sheriff; Smith, B.D.; Speece; Stephens; Taylor, D.J.; Taucher, P.J.; Treloar; Valasek; Vinton; Wang, D.; Wang, Y.; Williams, M.C.; Wilson, S.L.; Woodfill; Woods; Zawislak

**Geothermal studies** (see heat flow studies)

**Gippsland Basin (Australia)** — Yin

**Glaciation** (see also geomorphology) — Anderson, V.H.; Breckenridge (1969, 1974); Kiver; Lehrer; Nissan; Oviatt; Price; Ramberg; Rochette

**Glen Canyon National Recreation Area (Utah)** — Hand, F.E.

**Gneiss** (see also Precambrian) — Banks; Murphy, D.J.; Pierson

**Gold** (see precious metals deposits)

**Golden Spike area (Alberta, Canada)** — Stephen

**Good Fortune mining area (Platte County)** — Ebbett

**Goose Egg Formation** — French; Greer; Pearson

**Gorge Formation (Vermont)** — Gilman

**Goshen County** — Dockery; Herrmann; McGrew, L.W.

**Grand Canyon area (Arizona)** — Hoffman; Sears, J.W.

**Grand Canyon Series (Arizona)** — Sears, J.W.

**Granite** (see also Precambrian) — Fikkan; Graveson; Pierson

**Granite Creek thrust** — Hunter, R.B.

**Granite Mountains** — Bickford; Karasa; Sherer; Taucher, P.J.

**Granitization** — Osterwald, F.W.

**Grapevine Mountains (northern Death Valley, California)** — Oakes

**Graphite** — Patterson

**Grass Creek Basin** - Leite

**Gravity studies** — Babits; Cook, F.A.; Hurich; Isaacson; Karasa; Londe; Lu; Medlin; Oliver, K.L.; Reinke; Vinton; Woodfill

**Gravity slides** (see landslides)

**Grayrocks area (Platte and Goshen Counties)** — McGrew, L.W.

**Great Divide Basin** — Grasso

**Great Plains** — Reinke

**Great Valley (California)** — Colburn

**Greenland** — Gohl; Jarre; Larkin; Speece

**Green Lake area (Teton County)** — Mankiewicz

**Green Mountain area (Fremont County)** — Dickey; Steele

**Green Mountain area (Sierra Madre)** — Schmidt

**Green River aquifer (Wasatch/Green River aquifer)** — Bruce

**Green River Basin** — Adler; Ahlbrandt; Anderson, J.E.; Bruce; Buchheim; Castro; Cutler; Deardorff; García-González (1993); Goodwin, J.H.; Hanley; Harder; Johnston, R.H.; Kornegay; Lawrence; Lundell; Mason, G.M.; Millice; Moncure (1979); Mott; Murray, W.B.; Ratterman; Sheriff; Shuster; Smithson; Sperri; Stuart; Williams, J.D.

**Green River Formation** — Adler; Buchheim; Castro; Deardorff; Goodwin, J.H.; Hanley; Kornegay; Lawrence; Lundell; Mason, G.M.; Millice; Moncure (1979); Mott; Ratterman; Sheriff; Stuart; Williams, J.D.

**Green River Lakes area (Sublette County)** — Swauger

**Greenstone terrain in Minnesota** — Pierson

**Gros Ventre Mountains (Range)** — Hunter, R.B.; Mills, J.P.; Tombaugh

**Ground water** — Blanchard; Bruce; Burritt; Dam; Dockery; Doremus; Easley, D.H. (1989); Edwards; Finley, J.B.; Hand, F.E.; Herrmann; Hudson; Jarvis; Johnson, F.O.; Johnson, S.A.; Larsen; Loughlin; Lundy; Mills, J.P.; Moncur, R.S.; Murphy, J.D.; Richter; Robinson; Saulnier; Shanley; Sowers; Spencer; Spiegel; Stacy; Stock; Thompson, K.S.; Vietti, B.T.; Wiersma; Wilson, R.W.; Younus

**Gulf of Aden** — Pokras

**Gypsum deposits** — Bullock; Fisher; Max

**Gypsum Spring Formation** — Meyer

**Hahns Peak area (Colorado)** — Barnwell; Hunter, J.M.

**Halleck Canyon area (Albany County)** — Fields

**Hanna Basin** — Anderson, J.E.; Berg, W.R.; Bierei; Espenschied; Isberg; Johnson, S.A.; Kirschner; Kopriva; Le Febre, G.B.; McElhaney; Oliver, K.L.

**Hanna Coal Field (Carbon County)** — Berg, W.R.; McElhaney

**Hanna Formation** — Brooks, K.J.; McElhaney; Weichman, D.A.

**Hardeman Basin (Oklahoma)** — Wilson, S.L.

**Harestua region (Norway)** — Ramberg

**Haystack Mountains Formation (Hatfield Sandstone Member)** — Brain

**Headquarters Formation** — Sylvester

**Heat flow studies** — Baker, K.H.; Black, P.R.; Bucher; Buelow; Cook, F.A.; Hallin; Heasler (1978, 1984); Medlin; Nybla

**Heavy metals** — Rittle; Uhrie

**Heavy minerals** — Haywood; Madson

**Hecla area (Laramie County)** — Brady

**Highgate Falls area (Vermont)** — Gilman

**Highland Mine (Converse County)** — Gaylord (1981)

**Hilight oil field** — Chen

**Hilliard Formation (Shale)** — Adams; Skinner; Taucher, S.E.G.

**Hinman Park area (Routt County, Colorado)** — McConnell

**Historical geology** — Dickey

**Hoback Basin** — Cutler

**Hoback Peak area (Lincoln and Sublette Counties)** — Froidevaux

**Hoback Range (Mountains)** — Froidevaux

**Hog Park area (Carbon County)** — Merry

**Holocene** (see also geomorphology) — Herrick; Linneman; Mankiewicz

**Holsnoy Island (Norway)** — Boundy

**Horse Creek area (Lincoln County)** — Voorhees



**Horse Creek area (Laramie County)** — Cassiliano; Gray  
**Horse Creek Basin (Western Wyoming)** — Coolidge  
**Horse Creek Valley area (southeastern Wyoming)** — Dockery  
**Hosta Butte Quadrangle (McKinley County, New Mexico)** — Puwakool  
**Hot Springs County** — Ary; Bay; Burk; Dunn; Flanagan, P.E.; Jarvis; Kisling; Long, E.G.; Long, J.S., Jr.; Lyon; Phillips; Powell; Shlemon; Smith, J.R.; Sundell  
**Hot Springs State Park** — Jarvis  
**Howell Lake (Albany County)** — Talbot  
**Huasna Basin (California)** — Kablanow (1983,1986)  
**Humboldt Range (Elko County, Nevada)** — Hurlow; McGrew, A.J.; Mueller, K.J.; Valasek  
**Hunt Mountain area (Big Horn and Sheridan Counties)** — Frey  
**Huston Park area (Sierra Madre)** — Lackey  
**Hutton Lake anticline (Albany County)** — Nicoll  
**Hydrocarbon maturation** — Barrett; Bierei; García-González (1991); Hagen; Heasler (1984); Kablanow (1983,1986); Manske; Sahai; Yin  
**Hydrology** (see ground water)  
**Hydrophilic compounds** — Mason, J.M.  
**Ichnology** — Hansen  
**Idaho** — Andrau; Bland; Donovan; Espach; Hinds; Lageson (1980); Lu; Merritt; Moran; Nice; Oliver, R.L.; Royse; Schmitt (1982); Schock (1982); Sippel; Sorenson; Wolberg; Yonkee  
**Ilmenite** — Abrams; Diemer; Myers, J. (1978,1982)  
**Independence Mountain (North Park, Colorado)** — Walters  
**Indian Rocks area (Carbon County)** — Miller, W.R. (1971)  
**Ingelside Formation** — Diehl, J.F.; Fredrickson; Sipe  
**Insoluble residues** — Mescher; Mytton  
**Irish Canyon area (Moffat County, Colorado)** — Manion, L.J.  
**Iron formation** — Bickford; Duhling; Worl (1968)  
**Iron Mountain (Laramie Range)** — Hammond; Myers, J. (1978)  
**Isotopes** — Edwards, B.R.; Manning  
**Italy** — Burke  
**Ivrea -Verbana Zone (Southern Alps, Italy)** — Burke  
**Jack Creek area (Park County)** — Dunrud  
**Jackson Hole** — Antweiler; Ryan  
**Jade** — Sherer

**Jelm Formation** — Hubbell; Irwin; Pipiringos  
**Jelm Mountain area (Albany County)** — Cramer; Michalek; Vargas  
**Jelm Mountain Quadrangle (Albany County)** — Vargas  
**Jewel Cave National Monument (Custer County, South Dakota)** — Deal  
**Johnson County** — Carlson; Durkee; Richardson  
**Jointing** — Blevins; Cramer; Krosky  
**Julesburg Basin** — Bozanic  
**Jurassic** (see also individual formations) — Anderson (1978); Caparco; Curry; Doelger; Dresser; Gentry; Gillespie; Hubbell; Knapp; MacClintock; Meyer; Pacht; Pipiringos; Sacrison; West; Wheelock; Winslow; Wroble; Yonkee  
**Kansas** — Baldwin, E.A.; Bergstresser; Deiss; Dring  
**Karmutsen Volcanics (British Columbia)** — Starkey, R.J.  
**Karoo Formation (Tanzania)** — Lei  
**Karst** — Mills, J.P.; Spiegel; Stacy  
**Kendrick Project (Natrona County)** — Larsen; Wilson, R.W.  
**Kennaday Peak area (Carbon County)** — Ashley; Barton  
**Kenya** — Herrick  
**Kevin Shale Member (Marias River Formation in Montana)** — Balcells  
**Keystone area (Albany County)** — Currey  
**Killepecker Creek area (Sweetwater County)** — Ahlbrandt  
**Kimberlite** — Marks  
**Kindt Basin (Carbon County)** — Davis, J.R. (1963)  
**Kinematic history** — Duebendorfer  
**Kishenehn Basin (Montana)** — Constenius  
**Kitty oil field (Powder River Basin)** — Moncur, R.S.  
**Kootenay National Park (British Columbia, Canada)** — Westervelt  
**La Barge Creek area (Lincoln and Sublette Counties)** — Hauf; Suydam  
**La Barge Ridge area (Lincoln County)** — Bertagnolli  
**La Bonte Creek area (Converse County)** — Mort; Spelman  
**Lake Alice district (overthrust belt)** — Loose  
**Lake Magadi (Kenya)** — Herrick  
**Lake Maracaibo Basin (Venezuela)** — Aguado  
**Lake Marie area (Medicine Bow Mountains)** — Oviatt  
**Lake O'Hara area (British Columbia, Canada)** — Westervelt

**Lake Owen Mafic Complex (Albany County)** — Catanzaro; Morel; Patchen; Ridgley, J.L.; Stensrud

**Laketown Quadrangle (Rich County, Utah)** — Valenti

**Lake Wamsutter** — Grasso

**Lance Formation** — Breithaupt

**Lander (Hudson) anticline (Fremont County)** — Troyer

**LANDSAT applications** (see remote sensing)

**Landslides** — Gilmer; Guyton (1965); Murray, W.B.; Peitersen

**LANEY Member** ( see also Green River Formation) — Buchheim; Kornegay; Williams, J.D.

**La Prele Creek area (Converse County)** — Barlow (1950); Mort

**Laramide orogeny** — Banks; Bekkar; Bernaski; Bohn; Copland; Dudley; Hagen; Heyman; Johnson, R.A.; Le Febre, G.B.; Winterfeld (1986); McGee; Young; Zawislak

**Laramie area (Albany County)** — Cleven; Lundy; Robinson; Thompson, K.S.

**Laramie anorthosite complex** — Blackstone; Bochensky; Mitchell, J.N.; Taylor, D.J.

**Laramie Basin** — Atherton; Baldwin, H.T.; Burritt; Cramer; Davidson, J.R.; Davidson, P.S.; Giddings; Haywood; Heiman; Irwin; King, J.R.; Kirn; Konkel; Lundy; Nicoll; Osmond; Pearson; Pipiringos; Prichinello; Robinson; Serbeck; Spalding; Talbot; Thomas; Thompson, K.S.; Toots (1962); Vargas; Whitaker; Wilson, W.H.; Younus

**Laramie County** — Brady; Cassiliano; Copland; Edwards; Gray; Hammond; Haun (1949); Jenkins, P.T.; Loeffler; McGraw

**Laramie Range** — Albanese; Benniran; Blackstone; Bochensky; Brady; Brooks, B.G.; Cassiliano; Coalson; Copeland; Copland; Diemer; Edwards, B.R.; Gray; Hallock; Hammond; Harrison; Haun (1949); Hensley; Iltis; Jenkins, P.T.; Johnson, R.A.; Langstaff; Loeffler; McCurdy; McGookey; McGraw; Marks; Marlatt; Moore; Myers, J. (1978); Mytton; Osterwald, F.W.; Patel, S.C.; Sherer; Sims; Smith, B.D.; Speece; Taylor, D.J.; Toogood; Tudor; Wiersma; Woodfill

**Laramie River valley area** — Edwards

**Lead** — Denault

**Leadville Limestone (Mississippian; Colorado)** — Conley

**Leo Sands (Minnelusa Formation)** — Tromp

**Leucite Hills (Sweetwater County)** — Johnston, R.H.; Ogden; Sheriff; Smithson; Sperr

**Lewis Shale (Formation)** — Cody; Davidson, P.S.; Wolf

**Libby Creek Group** — Lanthier; Sylvester

**Limestone** — Andersson (1978)

**Limestone Hills area (Broadway County, Montana)** — Ruppel

**Lineaments** — Novakovich

**Lincoln County** — Adams; Bertagnolli; Bragdon; Carlisle; DeJarnett; Froidevaux; Fruchey; Furer; Hauf; Lageson (1980); Lawrence; Litchford; Merritt; Pledge; Suydam; Vietti, J.S.; Voorhees; Walker; Wood

**Lisbon Valley anticline (Utah)** — Denis  
**Little Basin (Carbon County)** — Bohn  
**Little Beaver Creek area (Carbon County)** — Huang  
**Little Canyon Creek area (Washakie County)** — Buffett; Dudley  
**Little Deer Creek area (Converse County)** — Berryman, R.J.  
**Little Medicine district (Laramie Basin)** — Konkel  
**Little Mountain area (Sweetwater County)** — Murray, W.B.; Wiegman  
**Little Muddy Creek area (Lincoln and Uinta Counties)** — Walker  
**Little Shirley Basin (Carbon County)** — Brown, O.P.  
**Livermore area (Colorado)** — Sipe  
**Long Valley caldera (California)** — Berg, R.M.; Black, R.A.; Deemer  
**Lookout schist** — Wilson, B.D.  
**Lost Soldier area (Carbon, Fremont, and Sweetwater Counties)** — Gaylord (1983); Guyton (1960)  
**Louisiana** — Granata  
**Lucerne anticline (Hot Springs County)** — Ary  
**Lysite Mountain area (Fremont County)** — Bay; Dunn, T.L.  
**Mad Creek Quadrangle (Routt County, Colorado)** — Fenton  
**Madison County (Montana)** — Foote  
**Madison Limestone** — Diehl, S.B.; Doremus; Edman; Lageson (1977); Mescher; Mytton; Stacy  
**Mafic and ultramafic rocks** (see also Precambrian) — Albanese; Miller, W.R. (1971); Ridgely, J.L.; Schuster; Stensrud  
**Magma** — Liberty; Linton; Singer  
**Magnetic studies** (see also paleomagnetic studies) — Baron; Diamond; Finley; Hoare; Isbell; Keefer, C.M.; Lei; Liebes; Mackenzie; Ntulanalwo; Templeton; Wade; Williams, M.C.  
**Magnetite** — Diemer; Myers, J. (1978, 1982)  
**Mahogany Ridge area (Big Hole Mountains, Idaho)** — Espach  
**Mammalian fauna** (see also vertebrate fossils; paleontology) — Bown; Davidson, J.R.; Leite; Miao; Prichinello; Winterfeld (1979)  
**Mantle** — McCullar  
**Maracaibo Basin (Venezuela)** — Manske  
**Marie Byrd Land (Antarctica)** — Anderson, V.H.  
**Marias River Formation (Montana)** — Balcells  
**Mass wasting** (see landslides)

**Maturation studies** — Barrett; Bierei; Hagen; Manske

**Mayoworth region (Johnson County)** — Richardson

**McGill anticline (Albany County)** — Houlette

**Medicine Bow Formation** — Fox

**Medicine Bow Mountains (Snowy Range)** — Ashley; Blum; Childers; Currey; Duebendorfer; Finley, J.B.; Flurkey; Karlstrom (1977, 1981); King, J.S.; Kiver; Lageson (1977); Lanthier; McCallum; Morel; Neely; Oviatt; Patchen; Ridgley, J.L.; Rochette; Stensrud; Swetnam; Sylvester; Templeton; Wilson, B.D.

**Medicine Peak Quartzite** — Flurkey

**Medina Mountain area (Wind River Range)** — Koesterer

**Melange belt (North Cascade Range, Washington)** — Jett

**Mesaverde Formation (Group)** — Anderson, J.E.; Barwin; Bergstrom (1954); Cody; Davis, J.R. (1963, 1966); Heydenburg; Toots (1962); Workum

**Metamorphism** (see also Precambrian) — Bishop; Bochensky; Duebendorfer; Foote; Hodge (1963); Holden; Lei; MacCready; May; McDonough; Osterwald, D.B.; Patel, S.C.; Starkey, R.J.; Valasek

**Metapelite** — Holden

**Metasediments** (see also Precambrian) — Ebbett; Graff; Gwinner; Holden; Karlstrom (1977, 1981); Kratochvil; Langstaff

**Metavolcanics** (see also Precambrian) — Gorham; Lackey; Langstaff; Schmidt; Swift

**Micropaleontology (Microfauna)** (see also paleontology; foraminifera) — Adams; Atherton; Balcells; Baldwin, E.A.; Batt; Beatty; Bergstresser (1978, 1981); Cody; Deiss; Dring; Gaskill; Heiman (1972, 1977); Le Febre, V.S.; Love, F.R.; Pokras; Prochaska; Ryan; Serbeck; Skinner; Sukup; Taucher, S.E.G.; White, R.K.

**Middle Cottonwood Creek area (Fremont County)** — Riva

**Midwest area (Natrona County)** — Heydenburg

**Migmatite** (see also Precambrian) — Worl (1968)

**Mike Spencer Canyon area (Bonneville County, Idaho)** — Hinds

**Miller Hill area (Carbon County)** — Del Mauro

**Mineragraphy** — Patel, C.B.

**Mineralization, metallic** (see also mining districts; specific minerals; base metals deposits; precious metals deposits) — Benedict; Denault; Foote; Graff; Harris; Hoffman; Hughes; Kling; Kratochvil; McGrew, R.B.; Merry; Noble; Schmidt; Schuster; Schoen; Swift

**Mineralogy** — Coolidge; Copeland; Diamond; Keefer, C.M.; Kling; Kornegay; Loose; McGrew, A.R.; Martin; Mason, G.M.; Myers, J. (1982); Ridgley, J.L.; Sands; Schock (1975); Waldon; Yonkee

**Mineral reactions** (see geochemistry)

**Minerals, heavy** — Haywood; Madson

**Mining districts** (see also mineralization, metallic) — Barnwell; Coalson; Davis, J.C. (1963); Dreier; Fisher; Galey; Patel, C.B.; Pedersen; Schoen; Short; Schuster

**Minnelusa Formation** — Desmond; Husain; Tromp

**Minnesota** — Gohl; Pierson

**Miocene** — Ebens (1966); Fisher; Yatkola

**Misoa Formation (Venezuela)** — Manske

**Mississippian** (see also individual formations) — Daley; DeJarnett; Diehl, S.B.; Doremus; Edman; Gillespie; Hand, H.D.; Lageson (1977); Mescher; Mytton; Zell

**Mollusks** (see also paleontology) — Hanagan; Hanley; Kirschner

**Montana** — Andersson (1982); Badgley; Balcells; Beck; Constenius; Foote; Gillespie; Hagen; Hall; Hoare; Partridge; Ruppel; Salisbury; Schock (1982); Winslow; Zoble

**Montana Group** — Hale

**Monterey Formation (California)** — Kablanow (1983, 1986); Smith, A.L.

**Montpelier Canyon Quadrangle (Idaho)** — Wolberg

**Moonstone Formation** — Mariner (1971)

**Morgan Lake (Natrona County)** — Waldon

**Mormon Canyon area (Converse County)** — Drwenski

**Morne l'Enfer Formation (Trinidad)** — Boodoo

**Morrison Formation** — Baker, G.K.; MacClintock; Yingling

**Morton Pass area (Albany County)** — Bochensky

**Morton Ranch area (Converse County)** — Harris

**Mount Darby area (Lincoln County)** — DeJarnett

**Mount Thompson area (Sublette and Lincoln Counties)** — Fruchey

**Mowry Shale** — Davis, J.C. (1963, 1967)

**Mud Creek area (Hot Springs County)** — Flanagan, P.E.

**Muddy Creek area (Carbon County)** — McDavid

**Muddy Gap area (Carbon County)** — Weimer

**Muddy Mountain area (Natrona County)** — Schwarberg

**Muddy Sandstone** — Bozanic; Espenschied; Hamilton; Moncur, R.S.; Osmond; Oster; Rudkin

**Mummy Range (Colorado)** — Breckenridge (1969)

**Nannies Peak intrusive complex (Elko County, Nevada)** — Starkey, K.J.

**Natrona County** — Barwin; Bergstrom (1950); Berry; Bickford; Bogrett; Carey (1959); Coughlan; Dengo; Faulkner; Gillum; Heydenburg; Hoch; Jenkins, C.E.; Karasa; Larsen; Mackenzie; Mariner (1971); Mitchell, S.D.; Oster; Pekarek; Peterson; Roth; Schwarberg; Sears, W.A.; Sheffer; Sheriff; Sims; Stacy; Waldon; Wells; Wills; Wilson, R.W.; Workum

**Natural gas** (see petroleum)

**Nebraska** — Bozanic; Gjeltsteen; Voorhies; Yatkola

**Neodymium** — Manning

**Nephrite** — Sherer

**Nevada** — Barrett; Carbonell; Donovan; Gordon; Hudec; Hurlow; Jaeger; King, J.K.; Liberty; MacCready; McGrew, A.J.; Miller, R.P.; Moncure (1980); Mueller; Smith, C.L.; Starkey, K.J.; Swenson; Taylor, M.W.; Valasek

**Newberry Volcano (Oregon)** — Linneman

**Newcastle Sandstone (Formation)** — Grace; Ochoa

**New Fork Lakes area (Sublette County)** — Kolb

**New Mexico** — Cook, F.A.; Le Febre, V.S.; McCullar; Olander; Puwakool; Woods

**New Rambler Mine (Albany County)** — Coalson

**Niagaran Stage (Ohio)** — Ulteig

**Niobrara County** — Johnson, F.O.; Stock

**Niobrara Formation** — Atherton; Beatty; Bergstresser (1978); Gaskill; Serbeck

**Niobrara Formation (Kansas)** — Baldwin, E.A.; Dring

**Niobrara Formation (New Mexico)** — Le Febre, V.S.

**Niobrara Formation (South Dakota)** — Gaskill

**North Carolina** — Brown, A.Y.

**North Cascades (Washington)** — Hurcomb; Jett

**North Dakota** — Hanson, B.M.

**North Fork of Owl Creek area (Hot Springs County)** — Sundell

**North Hahns Peak area (Routt County, Colorado)** — Hunter, J.M.

**North Laramie River valley area** — Edwards, A.R.

**North Park Basin (Colorado)** — Barnes; Hoodmaker; York

**North Park syncline (Colorado)** — Barnes

**North Platte River valley (Goshen County)** — Herrmann

**Norway** — Ramberg

**Nowood area (Washakie County)** — Murray, F.E.; Todd; Trotter

**Nugget Sandstone (Formation)** — Doelger; Hubbell; Knapp; Pacht; Pipiringos; Wroble

**Nye County (Nevada)** — Barrett; Boundy

**O'Brien Springs sandstone** — McClurg

**Oceanic arc complex (West Indies)** — Rowe; Yule

**Ohio** — Ulteig

**Oil** (see petroleum)

**Oil Mountain area (Natrona County)** — Amos; Faulkner

**Oil shale** (see also Green River Formation) — Adler; Deardorff; Mason, G.M.

**Oklahoma** — Wilson, S.L.

**Old Woman anticline (Niobrara County)** — Stock

**Oligocene** (see also individual formations) — Evanoff; MacCready; Kron; Toots (1965)

**Omaha Lake (Natrona County)** — Waldon

**Opal area (Lincoln County)** — Pledge; Wood

**Ordovician** (see also individual formations) — McCoy; Morisawa; Walsh

**Ore deposits** (see mineralization; mining districts; base metals deposits; precious metals deposits)

**Ore forming fluids** — Noble

**Oregon** — Linneman

**Organic geochemistry** — Crossey; Mason, J.M.

**Otter Creek area (Washakie County)** — Morgan

**Overthrust Belt** (see also counties in area) — Adams; Andersson (1982); Andrau; Batt; Bland; Carlisle; Coogan; Cook; DeJarnett; Espach; Froidevaux; Gentry; Hauf; Hinds; Hunter, R.B.; Hurst; Knapp; Koenig, R.L.; Lageson (1980); Litchford; Loose; Moran; Nice; Oliver, R.L.; Pacht; Royce; Salat; Schmitt (1982); Schock (1975, 1982); Sippel; Skinner; Sorenson; Valenti; Wallem; Wolberg; Worrall; Yonkee

**Owl Canyon area (Colorado)** — Fredrickson

**Owl Canyon Formation (Colorado)** — Pearson

**Owl Creek area (Hot Springs County)** — Sundell

**Owl Creek Mountains** — Bay; Blundell; Duhling; Dunn (1979); Gliozzi; Gubbels; Love, J.D.; Murray, F.E.; Trotter

**Pacific Creek area (Sublette and Fremont Counties)** — Hummel

**Pacific Ocean** — Heiman (1977)

**Pahute Mesa (Nevada test site)** — Moncure (1980)

**Paired Ridges syncline (Montgomery County, Arkansas)** — Blair

**Paleobathymetry** (see also foraminifera) — Pokras

**Paleocene** (see also individual formations) — Bierei; Leite; McElhaney; Mogensen; Parker; Severn; Swain; Winterfeld (1979)

**Paleoclimate** (see also geomorphology) — Evanoff; Gaylord (1983); Nissan

**Paleoecology** — Adams; Balcells; Baldwin, E.A.; Batt; Beatty; Bergstresser (1981); Breithaupt; Buchheim; Chronic; Hanley; Kirschner; Le Febre, V.S.; Leite; Pledge; Ryan; Serbeck; Taucher, S.E.G.; Toots (1962); Wilkinson



**Paleoenvironment** — Anderson, J.E.; Andersson (1982); Baker, G.K.; Baldwin, H.T.; Bell, L.H.; Berryman, W.M.; Bottjer; Brooks, J.K.; Coughlan; Davis, J.R. (1966); Desmond; Doelger; Flurkey; Fox; Fredrickson; Hamilton; Haywood; Heydenburg; Hurst; Knapp; Kraus; Lageson (1977); Lundell; McClurg; McElhaney; Miller; Moncure (1979); Moraes; Ochoa; Ore; Pacht; Pledge; Rudkin; Schmitt (1979); Simnacher; Sipe; Sippel; Steele; Sylvester; Toots (1965); Tromp; Wallem; Weichman, D.A.; West; Whitaker; Williams, J.D.; Yatkola; Yose

**Paleogeography** — Curry; DeJarnett; Greer; Grasso; Miller, R.P.; Renner

**Paleolimnology** — Buchheim

**Paleomagnetism** — Diehl, J.C.; Diehl, S.B.; Huycke; Isbell; Lee; Lei; Liebes; Morel; Pruss; Sheriff

**Paleontology** — Adams; Andersson (1982); Atherton; Balcells; Baldwin, E.A.; Batt; Beatty; Bergstresser (1978, 1981); Bowdler; Bown; Breithaupt; Buchheim; Caparco; Cassiliano; Chronic; Cody; Daley; Davidson, J.R.; Deiss; DeJarnett; Deland; Donovan; Dring; Durkee; Eaton, J.G.; Evanoff; Fox; Gaskill; Gilman; Hager; Hanagan; Hanley; Hansen; Hartman; Heiman (1972, 1977); Hensley; Kirschner; Kornegay; Kron; Kulas-Adler; Le Febre, V.S.; Leite; Love, F.R.; Miao; Nice; Pokras; Prichinello; Prochaska; Ryan; Schmitt (1979); Schock (1982); Serbeck; Simnacher; Skinner; Starkey, C.; Stephen; Sukup; Tombaugh; Taucher, S.E.G.; Voorhies; Wheelock; White, R.K.; Winterfeld (1979); Wolf; Wood; Zell

**Paleozoic** (see also individual formations) — Jarvis; King, J.S.; Loope; McCallum; Spencer

**Paleozoic Aquifer (Denver-Julesburg Basin)** — Wiersma

**Panamint Mountains (California)** — Harding

**Park City Formation** — Kulas-Adler; Schmitt (1979); Tombaugh; Wilkinson

**Park County** — Baker; Bell; Breckenridge (1974); Bullock; Dreier; Dunrud; Eaton, J.G.; Fisher; Galey; Heasler (1978); Kraus; McGrew, A.R.; Meyer; Pedersen; Pruss; Risley; Rudkin; Salisbury

**Parkman Sandstone** — Heydenburg

**Park Range (Colorado)** — Lehrer

**Parnell Creek area (Sweetwater County)** — Simnacher

**Pascal experiment (Nevada test site)** — Colburn; Walker

**Pass Creek Basin area (Albany and Carbon Counties)** — Gries; Saulnier; Weichman, D.A.

**Pass Creek Ridge anticline (Carbon County)** — Chadeayne

**Pathfinder region** — Flanagan, K.M.

**Pediments** — Doehring; Hanson, B.V.; Jaworowski (1985)

**Pedro Mountains (Carbon County)** — Graveson

**Pelton Creek area (Albany and Carbon Counties)** — Swetnam

**Pennock Mountain area (Carbon County)** — Ashley; Barton

**Pennsylvanian** (see also individual formations) — Del Monte; Desmond; Edman; Hansen; Harrison; Hensley; Husain; McCurdy; McGookey; Mettes; Miller, R.P.; Spalding; Thompson, K.S.; Tromp; Whitaker; Wilson, W.H.; Yose

**Pequop Mountains (Nevada)** — Swenson

**Peridotite** (see also mafic rocks) — Albanese

**Periglacial features** — Nissan

**Permian** (see also individual formations) — Andersson (1982); Basko; Del Monte; Desmond; Edman; French; Greer; Hanagan; Hansen; Hensley; Husain; Kivi; Kulas-Adler; Lei; McCue; McCurdy; McGookey; Mettes; Miller, R.P.; Partridge; Pearson; Renner; Schmitt (1979); Schock (1982); Sipe; Tebbutt; Todd; Tombaugh; Tromp; Weichman, B.E.; Whitaker; Wilkinson; Wilson, W.H.

**Petrogenesis** — Ogden; Starkey, K.J.

**Petrography (petrology)** — Albanese; Bickford; Bothner; Brooks, K.J.; Catanzaro; Conley; Davis, J.C. (1967); Ebbett; Ebens (1963); Evens (1966); Ferris; Flurkey; Fredrickson; García-González (1993); Gliozzi; Hodge (1966); Hoch; Jett; King, J.S.; Kirn; Kling; Kraus; Lackey; Linneman; McCallum; Maret; Marshall; Mills; Mitchell, J.N.; Mueller, R.E.; Murphy, D.J.; Nissan; Ogden; Patchen; Pekarek; Rowe; Short; Singer; Smith, J.R.; Starkey, K.J.; Steele; Wang; Wolfbauer; Yule

**Petroleum and natural gas** (see also specific areas) — Benaissa; Bierei; Burch; Chen; Dunn, T.L. (1992); Edman; Fischer; Froman; Fuller (1988); García-González (1993); Heasler (1978, 1984); Husain; Kablanow (1983, 1986); Manning; Manske; Maret; Maucione; Mesheryakova; Moncur; Moraes; Paylor; Smith, L.K.; Spencer; Wang, Y.; Yin

**Petrology** (see petrography)

**Phlox Mountain area (Hot Springs and Fremont Counties)** — Long, J.S., Jr.

**Phosphate** — Kivi; Mott

**Phosphoria Formation** — Basko; Edman; Kivi; McCue; Mettes; Partridge; Tebbutt; Weichman, B.E.

**Photolinear elements** — Novakovich

**Physiography** (see geomorphology)

**Picacho Mountains (Arizona)** — Valasek

**Piceance Creek Basin (Colorado)** — Lundell

**Pierre Shale** — Bergstresser (1981)

**Pine Creek Pass area (Big Hole Mountains, Idaho)** — Royse

**Pine Mountain area (Natrona County)** — Wills

**Pine Valley basin (Nevada)** — Gordon

**Piney Creek Basin area (Sublette County)** — Schock (1975)

**Pinto Creek Quadrangle (Albany County)** — Kaabar

**Piping studies** — Clausen

**Pismo Basin (California)** — Kablanow (1986)

**Platinum** — Schuster

**Platte County** — Albanese; Bothner; Ebbett; Edwards; Jenkins, P.T.; Lynn; McGrew, L.W.; Mueller, R.E.; Patterson; Toogood; Woodfill

**Pleistocene** (see also geomorphology) — Hager; Herrick

**Pliocene** (see also individual formations) — Antweiler; Berryman, W.M.; Hager; Mariner (1971); Voorhies

**Plunkett anticline (Fremont County)** — Troyer

**Pocatello Range (Idaho)** — Bland

**Poe Mountain area (Albany County)** — Blackstone

**Polecat Bench Formation (Fort Union Formation)** — Bown; Hartman

**Popo Agie Formation** — Wroble

**Porcupine Creek area (Big Horn County)** — Willis

**Post - Laramide faulting** — Dudley

**Potiguar and Recôncavo basins (Brazil)** — Moraes

**Powder River Basin** (see also counties in basin) — Chen; Desmond; Fiki; Fuller (1988); Haun (1953); Jiao; Mackenzie; Maucione; Mills; Moncur, R.S.; Morisawa; Perez; Vinton; Wang, Y.; Wilson, J.B.

**Powell oil field** — Maucione

**Precambrian** — Albanese; Banks; Bekkar; Benedict; Bickford; Bishop; Blundell; Bochensky; Catanzaro; Coalson; Copeland; Currey; Denault; Diemer; Duebendorfer; Ebbett; Ferris; Fields; Fikkan; Flurkey; Gliozzi; Gorham; Graff; Graveson; Gwinner; Hoare; Hodge (1963, 1966); Holden; Huang; Hughes; Hulsebosch; Iltis; Jarre; Johnson, R.A.; Karlstrom (1977, 1981); King, J.S.; Koesterer; Kratochvil; Lackey; Langstaff; Lanthier; Larkin; McCallum; Marlatt; Marshall; Master; Merry; Michalek; Miller, W.R. (1971); Mitchell, J.N.; Morel; Mueller, R.E.; Murphy, D.J.; Myers (1978); Osterwald, D.B.; Osterwald, F.W.; Patchen; Patel, C.B.; Pierson; Ridgley, J.L.; Ridgley, N.H.; Robertson; Rochette; Schmidt; Schuster; Sears, J.W.; Sherer; Short; Smith, D.B.; Speece; Starkey, K.J.; Starkey, R.J.; Stensrud; Swift; Sylvester; Taylor, D.J.; Toogood; Valasek; Ware; Wells; Wied; Williams, W.C.; Wilson, B.D.; Wilson, S.L.; Woodfill; Worl (1963, 1968)

**Precious metals deposits** — Foote; Weight

**Priest River metamorphic core complex (Washington)** — May

**Prospect thrust** — Hunter, R.B.

**Proterozoic** (see also Precambrian) — Flurkey; Graff; Karlstrom (1977, 1981); Mitchell, J.N.

**Provenance studies** — Coolidge; Salat; Schock (1975)

**Quartz-pebble conglomerate** — Graff; Gwinner; Kratochvil

**Quaternary** (see also geomorphology; individual epochs) — Breckenridge (1974); Grasso; Hanson, B.V.; Jaworowski (1985, 1993); Ramberg; Schoenfeld

**Rabbit Ears Range (Jackson and Grand Counties, Colorado)** — Mariner (1967); Scott

**Radioactivity** (see uranium; heat flow studies)

**Radon** — Ziegler

**Railroad Valley (Nye County, Nevada)** — Barrett

**Rangely Field (Rio Blanco County, Colorado)** — Maret

**Rattlesnake Hills (Natrona County)** — Bogrett; Carey (1959); Hoch; Pekarek; Rachou; Roth; Sheriff

**Rawlins uplift** — Barlow (1953)

**Red Buttes area (Albany County)** — Wilson, W.H.

**Red Canyon Creek area (Fremont County)** — McKay

**Red Canyon Rim area (Fremont County)** — Doelger

**Red Fork Powder River area (Johnson County)** — Carlson

**Red Gulch area (Big Horn and Sheridan Counties)** — Frey

**Red Hills area (Teton County)** — Keefer, W.R. (1952)

**Red Mountain area (Laramie Mountains)** — Copeland

**Red Peak Formation (Member)** — Irwin

**Red Spring anticline (Hot Springs County)** — Shlemon

**Red Water Shale Member (Sundance Formation)** — Andersson (1978)

**Remote sensing** — Berg; Earle; Froman; Grasso; Kaminsky; King, J.K.; Kolb; Kolm (1977); Levinson; Londe; Marks; Novakovich; Oliver, R.L.; Moraes; Paylor; Templeton; Vargas

**Reservoir properties** — Aguado; Dunn (1992)

**Richeau Hills area (Platte County; Reshaw Hills)** — Lynn; Mueller

**Rio Grande Rift** — Buelow; Cook, F.A.; McCullar; Woods

**Rock Creek fault (western Wyoming)** — Chambers

**Rock reflectance** (see remote sensing)

**Rock mechanics** — Burke

**Rock Springs Formation** — Finley, A.K.

**Rock Springs uplift** — Benaissa; Davis, R.W.; Deardorff; Hale; Mogensen; Severn; Stuart; Winterfeld (1979)

**Ross Island area (Antarctica)** — Bucher

**Round Mountain (Uinta County)** — Worrall

**Rhyolite** (see also tuff and volcanics) — Gloor

**Ruby Mountains (Nevada)** — Hudec; MacCready; Valasek

**Ryckman Creek anticline (Lincoln and Uinta Counties)** — Vietti, J.S.

**Sabine uplift area (Texas and Louisiana)** — Granata

**Sage Breaks Shale (Niobrara Formation)** — Serbeck

**Sage Creek area (Carbon County)** — Del Mauro; Umbach, E.D.

**Sage Creek drainage basin (southwest Wyoming)** — Murphy, J.D.

**Saint Marys anticline (Carbon County)** — Chadeayne

**Salinas Basin (California)** — Kablanow (1986)

**Saline lakes** — Talbot; Waldon  
**Salt River Range (Wyoming)** — Blanchard  
**Saltzgitter – Salder (West Germany)** — Sukup  
**Sampling procedures** — Weight  
**San Andreas Fault** — Baker, F.B.  
**Sand Creek facies (lower Willwood Formation)** — Bown  
**Sand dunes** (see eolian activity)  
**Sandstone reservoirs** — Moraes  
**Sand Wash Basin (Colorado)** — Kornegay  
**San Joaquin Basin (California)** — Fischer  
**San Rafael Swell (Utah)** — Groth  
**Santa Barbara Basin (California)** — Smith, A.L.  
**Santa Maria Basin (California)** — Smith, A.L.  
**Saratoga Valley area (Wyoming and Colorado)** — Montagne (1955)  
**Schiester Peak area (Sublette County)** — Benedict  
**Seboyeta area (New Mexico)** — Harris  
**Sedimentary structures** — Crews; Irwin  
**Sediments and sedimentation** — Andersson (1978); Baldwin; Bell, L.H.; Boodoo; Brooks; Constenius; Crews; DeJarnett; Doelger; Evanoff; Fredrickson; Gaylord (1981,1983); Goodwin, C.N.; Gordon; Groll; Haywood; Irwin; Kimball; Kirn; Kornegay; Kraus; Lageson (1977); Loope; Loose; Lundell; McGee; Madson; Mankiewicz; Maret; Middleton; Miller, R.P.; Moncure (1979); Ochoa; Ore; Pacht; Pearson; Perez; Rudkin; Salat; Schmitt (1982); Schock; Sylvester; Whitaker; Winterfeld (1986); Wroble  
**Seismic studies** (see also earthquakes) — Berg, R.M.; Black, R.A.; Boyd; Branch; Brown, A.Y.; Carbonell; Colburn; Cozzens; Deemer; Fiki; Fuller (1987, 1988); Gohl; Gorham; Harder; Iltis; Iverson; Kopriva; Liberty; Lowry; Lu; McCullar; McDonough; Maucione; May; Mayrand; Minnich; Munoz; Pujol; Rivas; Taucher, P.J.; Taylor, D.J.; Templeton; Treloar; Valasek; Walker; Wang, D.; Wang, Y.; Wilson, S.L.; Woods; Zawislak  
**Selenium** — Kolm (1975); Larsen; Wilson, R.W.  
**Sellers Mountain (Laramie Range)** — Langstaff  
**Seminole Mountains** — Albanese; Allspach; Bishop; Bohn; Cooper; Sherer; Shoemaker  
**Seminole syncline (Carbon County)** — Finnell  
**Sevier orogeny** — Yingling  
**Shannon Sandstone Member (Cody Shale)** — Perez  
**Shear zones** — Boundy; Huang; Kelley; MacCready; McCallum; Merry; Mueller, R.E.  
**Shedhorn Sandstone** — Tombaugh  
**Sheep Creek area (Fremont County)** — Riva

**Sheephead Mountain (Carbon County)** — Banks; Sever  
**Sheep Mountain (Albany County)** — Bradford; Cramer  
**Sheep Mountain (North Park, Colorado)** — Welsh  
**Sheep Ridge area (Hot Springs and Fremont Counties)** — Blundell; Phillips  
**Sheridan County** — Cardinal; Durkee; Frey; Harston; Ramsey; Sowers; Zakis  
**Shirley Basin** — Carey (1950); Clarey; Peterson; Riedl  
**Shirley fault (Carbon County)** — Clarey  
**Shirley Mountains** — Bohn; Clarey; Ferren; Graveson; Landau; Shoemaker  
**Shirley syncline (Carbon County)** — Finnell  
**Sierra Madre** — Buehner; DeNault; Graff; Gwinner; Huang; Hughes; Kratochvil; Lackey; Merry; Price; Ridgely, N.H.; Ritzma; Schmidt; Schuster; Short; Swain; Swift; Ware; Wied  
**Silicates** — Goodwin, J.H.  
**Silicification of fossils** — Daley  
**Silver Star (Madison County, Montana)** — Foote  
**Sinclair area (Carbon County)** — Anderson, J.E.  
**Sixmile Gap area (Albany and Carbon Counties)** — Myers, W.G.  
**Skylab** — Earle  
**Slate Creek metamorphic terrain (Albany County)** — Holden  
**Slavonia area (Routt County, Colorado)** — Murphy, R.W.  
**Slope development studies** — Clausen; Gilmer  
**Slope stability** — Miller, S.M.  
**Smith Creek area (Converse and Natrona Counties)** — Sears, W.A.  
**Smokey Hill member (Niobrara Formation; Kansas)** — Dring  
**Snake River lineament** — Oliver, R.L.  
**Snake River Plain** — Fuller (1987)  
**Snider Basin area (Sublette County)** — Koenig, R.L.  
**Snowy Range** (see Medicine Bow Mountains)  
**Snowy Range Supergroup** — Graff; Karlstrom (1977, 1981)  
**Soap Hole Lake (Albany County)** — Talbot  
**Solution cleavage** — Gentry; Yonkee  
**Sonic logs** — Munoz  
**Sortehjorne area (Mesters Vig, Scoresby Land, East Greenland)** — Jarre  
**Source rock studies** — Bierei; Coolidge; Hagen; Manske; Schock (1975); Wallem

**South America** — Boodoo; Repetto; Rowe; Yule

**South Dakota** — Deal; Epstein; Gaskill; Grace; Sacrison; Tromp

**South Pass area (Fremont County)** — Balsam; Bottjer; Worl (1963)

**South Pass Formation** — Bottjer

**South Sheep Mountain area (Fremont County)** — Gooldy

**Spain** — Burns

**Sphinx Mountain area (Montana)** — Beck

**Spring Creek area (Moffat County, Colorado)** — Elias

**Squaw Rock area (Laramie Range)** — Woodfill

**Stanaker Formation (Uinta Mountains area)** — Sikich

**Statistical analysis** — Chen; Cleven; Cramer; Faucette; Jaworowski (1985); Kelley; Madson; Miller, S.M.

**Steele Shale** — Cody

**Stewart Peak Quadrangle (Lincoln County)** — Lageson (1980)

**Stinkingwater mining region (Park County)** — Fisher

**Stratigraphic traps** — Husain

**Stratigraphy** (see also geology of specific areas) — Amos; Anderson, J.E.; Badgley; Baker; Balcells; Baldwin; Barwin; Basko; Bay; Bell, L.H.; Benniran; Bergstresser; Bergstrom; Bernaski; Berry; Biggs; Bown; Bozanic; Brain; Burk; Burns; Carlisle; Carlson; Cassiliano; Castro; Constenius; Conley; Crews; Curry; Davidson; Davis, J.C.; Davis, J.R. (1966); Davis, R.W.; Deardorff; DeJarnett; Deland; Del Monte; Desmond; Dresser; Durkee; Eaton, J.G.; Ebens (1966); Espenschied; Finley, A.K.; French; Gardner; Gaylord (1981); Gillum; Grace; Granata; Gries; Groth; Hale; Hamilton; Hand, H.D.; Harrison; Haun (1953); Heydenburg; Hoodmaker; Hubbell; Hunter; Jaeger; Jaworowski (1993); Johnston, J.C.; Keller; Kistner; Kivi; Knapp; Koenig, R.L.; Lanthier; Lawrence; Litchford; Loeffler; MacClintock; McClurg; McCoy; McCue; McCurdy; McGookey; McGrew, A.R.; Maret; Mason, G.M.; Merritt; Mescher; Mettes; Meyer; Miller, R.P.; Millice; Minick; Mogenssen; Morisawa; Mytton; Nace; Osmond; Oster; Parker; Partridge; Patchen; Pederson; Pipiringos; Pledge; Pokras; Rachou; Renner; Rivas; Roth; Ryan; Sacrison; Salat; Schmidt (1979, 1982); Schock (1982); Severn; Shuster; Sikich; Simnacher; Skinner; Tebbutt; Thompson, R.M.; Todd; Toots (1965); Tromp; Ulteig; Voorhees; Walsh; Weichman, B.E.; Weichman, D.A.; West; Wiegman; Williams, J.D.; Wilson, J.B.; Wilson, W.H.; Winslow; Winterfeld (1986); Wood; Workum; Wroble; Yingling; Zoble

**Strona - Ceneri Zone (Southern Alps, Italy)** — Burke

**Strong Creek prospect (Albany County)** — Kling

**Structure** (see also geology of specific areas) — Albanese; Baker, F.B.; Banks; Bekkar; Bell, W.G.; Bickford; Blair; Bland; Blevins; Blundell; Bohn; Bothner; Boundy; Boyd; Bradford; Branch; Burke; Cook, W.R., III; Copland; Cramer; Crews; Dickey; Dimitroff; Duebendorfer; Ebbett; Ferris; Finley, A.K.; Finnell; Froidevaux; Fruchey; Furer; Gentry; Gillum; Gliozzi; Gordon; Granata; Gries; Gubbels; Gwinner; Hauf; Hodge (1966); Huang; Hudec; Hulsebosch; Hunter, R.B.; Hurlow; Jaeger; Johnson, R.A.; Keefer (1956); King, J.S.; Koenig, R.L.; Krosky; Lageson (1980); Landau; Lanthier; Larkin; Litchford; Le Febre, G.B.; Londe; Lu; McCallum; McGee; Marshall; Mills, J.P.; Moran; Novakovich; Osterwald, D.B.; Osterwald, F.W.; Pekarek; Reinke; Risley; Rowe; Salisbury; Sears, J.W.; Sever; Shuster; Spalding; Stephens; Suydam; Swauger; Swenson; Thomas; Toogood; Valenti; Van Ingen; Vietti, J.S.; Voorhees; Wells; Westervelt; Wiersma; Wilson, B.D.; Wilson, S.L.; Wolberg; Worl; Worrall; Yankee; Yule

**Subduction** — Black, P.R.

**Sublette County** — Baker; Benedict; Berman; Bragdon; Carlisle; Coolidge; Cutler; Edman; Froidevaux; Fruchey; Furer; Hauf; Hummel; Koenig, R.L.; Kolb; Litchford; Schock; Suydam; Swauger; Tombaugh; Worl (1968)

**Sublette Range Conglomerate** — Salat

**Subsidence** — Berg, W.R.; Hill; Lowry

**Subsurface geology** — Bozanic; Castro; Morisawa

**Sundance Formation** — Andersson (1978); Dresser; Hubbell; Pipingos; West; Wroble

**Sunlight area (Park County)** — Dreier; Pedersen

**Superior Province (Manitoba, Canada)** — Boyd; Williams, M.C.

**Sussex Sandstone** — Wilson, J.B.

**Sweetwater County** — Adler; Ahlbrandt; Benaissa; Bottjer; Breithaupt; Brown, P.L.; Buchheim; Castro; Cunningham; Davis, R.W.; Deardorff; Ebens (1963); Goodwin, J.H.; Guyton (1960); Hale; Hanley; Jackson; Johnston; Kistner; Kornegay; Mogensen; Murphy, J.D.; Murray, W.B.; Ogden; Paylor; Ratterman; Severn; Sheriff; Shuster; Simnacher; Smithson; Sperr; Stuart; Wiegman; Williams, J.D.; Winterfeld (1979)

**Syenite** — Copeland (1970)

**Tabernacle Butte area (Sublette County)** — Berman

**Table Mountain (Albany County)** — Montagne (1951)

**Table Rock gas field (Sweetwater County)** — Paylor

**Taconite** (see also iron formation) — Worl (1968)

**Tanzania** — Lei; Ntulanalwo

**Taphonomy** — Donovan; Voorhies

**Teapot Sandstone** — Coughlan

**Tectonics** — Babits; Bernaski; Bottjer; Bowers; Branch; Constenius; Earle; Flanagan, K.M.; Gillespie; Graff; Groll; Hurst; Krosky; Le Febre, G.B.; McGrew, A.J.; Murphy, D.J.; Parker; Salat; Schmitt (1982); Shuster; Sippel; Spalding; Treloar; Van Ingen; Weichman, D.A.; Winslow; Winterfeld (1986); Yingling

**Tectonite** (see shear zone)



**Tectonostratigraphy** — Parker

**Teels Marsh (Nevada)** — Smith, C.L.; Taylor, M.W.

**Temple Peak Quadrangle (Fremont and Sublette Counties)** — Benedict

**Tennessee** — Brown, A.Y.

**Ten Sleep area (Washakie County)** — Trotter

**Tensleep Sandstone** — Burch; Edman; Mettes

**Terraces** — Jaworowski (1993)

**Tertiary** (see also individual formations and epochs) — Badgley; Berry; Bierei; Bottjer; Carey (1959); Ebens (1963); Fiki; Fisher; Goodwin, J.H.; Grant; Hurst; King, J.K.; Kirschner; Kistner; Kolm (1975); Kraus; Lawrence; McGrew, A.R.; Merritt; Mueller; Millice; Minick; Moncure (1979); Mott; Nace; Pledge; Rachou; Ratterman; Sheriff; Wiegman

**Teton County** — Antweiler; Hunter, R.B.; Keefer, W.R. (1952); Mankiewicz; Prochaska; Ryan; Worl (1968); Zell

**Texas** — Cozzens; Granata

**Thaynes Formation** — Donovan; Nice

**Thermal analysis** — Jiao; Medlin

**Thermal conductivity** (see also heat flow studies) — Sahai

**Thermal evolution** — Bierei, Hudec; Kablanow (1986)

**Thermal modeling** — Nyblade

**Thermodynamics** (see also geochemistry; metamorphism) — Myers, J. (1982)

**Thermomechanical modeling** — Londe

**Thermopolis anticline (Hot Springs County)** — Ary

**Thermopolis Shale (Formation)** — Espenschied; Osmond; Oster; Zoble

**Thompson Pass area (Lincoln and Sublette Counties)** — Furer

**Thousand Springs Valley area (Madison and Teton Counties, Idaho)** — Sorenson

**Thrust Belt** (see Overthrust Belt)

**Thrusts** (see also Overthrust Belt; structure) — Fruchey; Furer; Gentry; Hauf; Hunter, R.B.; Suydam; Voorhees; Yonkee

**Tight gas sands** - Mesheryakova

**Tipton Member (Green River Formation)** — Castro

**Tip Top field (Sublette County)** — Edman

**Titaniferous magnetite** — Diemer; Myers (1978, 1982)

**Titanomaghemite** — Keefer, C.M.

**Tobago (West Indies)** — Rowe; Yule

**Tolu area (Colombia)** - García-González

**Tongue River valley area (Sheridan County)** — Sowers

**Top of the World Provincial Park (British Columbia)** — Spiegel

**Tower Sandstone lenses (Eocene)** — Ebens (1963)

**Trace elements** — Kimball; Smith, C.L.

**Trace fossils** — Andersson (1982)

**Trail Creek area (Laramie County)** — Cassiliano

**Triassic** (see also individual formations) — Doelger; Donovan; French; Gardner; Greer; Hubbell; Huycke; Irwin; Johnston, J.C.; Knapp; Lei; Nice; Pacht; Partridge; Pipiringos; Renner; Schock (1982); Sikich; Wroble

**Trilobites** — Gilman

**Trinidad** — Boodoo

**Trona** — Brown, P.L.

**Troublesome Creek Basin (Carbon County)** — Koenig, A.A., Jr.; Van Ingen; Johnson, S.A.

**Tuff** — Antweiler; Ebens (1966); Goodwin, J.H.; Gloor; Mayrand; Olander; Ratterman; Taylor, M.W.

**Tunp Member (Wasatch Formation)** — Hurst

**Tununk Shale (Utah)** — Love, F.R.

**Twin Creek Formation** — Gentry; Yankee

**Uinta Basin (Utah and Colorado)** — Kimball

**Uinta County** — Brown, P.L.; Cook, W.R., III; Gilmer; Lawrence; Vietti, J.S.; Walker; Wolfbauer; Worrall

**Uinta Mountains** — Bernaski; Gilmer; Schoenfeld; Sikich

**Uncompahgre Plateau (Utah and Colorado)** — Heyman

**Underground coal burns** — Cunningham

**Underground coal gasification** — Mason, J.M.

**Unkpapa Sandstone** — Sacrison

**Upheaval Dome (San Juan County, Utah)** — Fiero

**Upper Fall Creek Basin area (Mummy Range, Colorado)** — Breckenridge (1969)

**Upper Slide Lake area (Teton County)** — Ryan

**Uranium** — Dam; Denis; Fiki; Gaylord (1981); Gjelsteen; Graff; Grant; Graveson; Gwinner; Harris; Kratochvil; Levinson; Mackenzie; Mills; Mott; Taucher, P.J.; Uhrie; Vinton

**Utah** — Bernaski; Branch; Denis; Donovan; Fiero; Groth; Hallin; Hand, F.E.; Heyman; Kimball; Knapp; Londe; Loope; Love, F.R.; Moncure (1979); Nice; Pacht; Richter; Schmitt (1982); Schoenfeld; Sikich; Skinner; Valenti; Wheelock; Yingling

**Vancouver Island (British Columbia)** — Starkey, R.J.

**Venezuela** - Aguado; Manske; Rivas

**Vermillion Creek area (Moffat County, Colorado)** — Manion, L.J.

**Vermont** — Gilman

**Vertebrate fossils** (see also paleontology) — Hager; Hartman; Kron; Leite; Miao; Voorhies; Winterfeld (1979)

**Volcanic events** — Nyblade

**Volcanics** (see also tuff; metavalcanics; and individual formations) — Antweiler; Carey (1959); Dunrud; Eaton, J.G.; Ebens (1966); Goodwin, J.H.; Isbell; Johnston, R.H.; King, J.K.; Lee; Linneman; Linton; Mariner (1967); Ogden; Pekarek; Pruss; Schmidt; Sheriff; Smithson; Sperr; Starkey, R.J.; Sundell; Swift; Taylor, M.W.

**Wagon Bed Formation** — Amos

**Wagonhound Creek area (Carbon County)** — Bauer

**Wasatch/Green River aquifer** — Bruce

**Wasatch Formation** — Davis, R.W.; Hanley; Hurst; Kolm (1975); Lawrence; Simnacher

**Washakie Basin** — Kornegay; Mesheryakova; Ratterman

**Washakie County** — Bay; Bown; Buffett; Dudley; Fulkerson; Morgan; Murray, F.E.; Smith, J.R.; Tebbutt; Trotter

**Washington** — Hurcomb; Jett; Lu; May

**Water chemistry** (see also ground water) — Blanchard; Blum; Bruce; Clow; Easley, D.H.; Finley, A.K.; Loughlin; Miller, W.R. (1974); Murphy, J.D.

**Water of compaction** — Noble

**Water resources** (see ground water)

**Weathering** — Clow; Mast; Rochette

**Weber Formation** — Maret

**Western Wyoming** (see also Overthrust Belt) — Andersson (1982); Pacht; Schock (1975, 1982); Schmitt (1982)

**Western United States** — Black, P.R.

**West Germany** — Sukup

**West Glacier (Snowy Range, Albany County)** — Rochette

**West Indies** — Boodoo; Rowe; Yule

**Weston County** — Davis, J.C. (1963); Epstein; Husain; Ochoa

**West Pine Creek area (Bonneville County, Idaho)** — Andrau

**Wheatland Reservoir area (Albany County)** — Brooks, B.G.

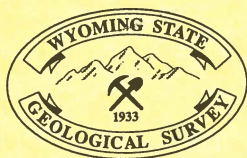
**Whiskey Gap (Carbon County)** — Weimer

**Whiskey Peak area (Fremont County)** — Dickey; Gilliland

**White River Formation** — Evanoff

**Wiggins Formation** — McGrew, A.R.

**Wildrose Peak area (Panamint Mountains, California)** — Harding  
**Wilkins Peak Member (Green River Formation)** — Mott  
**Willow Creek area (Fremont County)** — Ellerby  
**Willow Creek area (Natrona County)** — Gillum  
**Willow Creek Pass area (Grand and Jackson Counties, Colorado)** — Manion, R.E.  
**Willow Spring archaeological site (southwestern Wyoming)** — Hanson, B.V.  
**Willwood Formation** — Bown; Kraus  
**Windmill Islands (Budd Coast, Antarctica)** — Robertson  
**Wind River Basin** (see also counties in basin) — Barwin; Jaworowski (1993); Keller; Troyer; Weichman B.E.; White, V.L.; Zawislak  
**Wind River Formation** — Amos; Baldwin, H.T.; Davidson, J.R.; Grant  
**Wind River Range (Mountains)** — Bell, W.G.; Benedict; Biggs; Bottjer; Cervený; Deland; Gorham; Groll; Hodge (1963); Hulsebosch; Hurich; Koesterer; McGee; Marshall; Williams, W.C.; Winterfeld (1986); Worl (1963, 1968); Zawislak  
**Wood Hills (Humboldt) metamorphic complex (Nevada)** — Mueller, K.J.  
**Wood River area (Park County)** — Breckenridge (1974)  
**Wyoming badlands** — Clausen  
**Wyoming geographical explorations prior to 1900** — Umbach, P.H.  
**Wyoming geological explorations prior to 1900** — Umbach, P.H.  
**Wyoming Peak area (Wyoming Range)** — Litchford  
**Yoho National Park (British Columbia, Canada)** — Westervelt  
**Zeolites** — Bay; Boles; Dunn (1979); Goodwin, J.H.; Herrick; Mariner (1971); Moncure (1980); Olander; Ratterman; Smith, C.L.  
**Zinc** — DeNault; Martin



*Geology -- Interpreting the past to provide for the future*