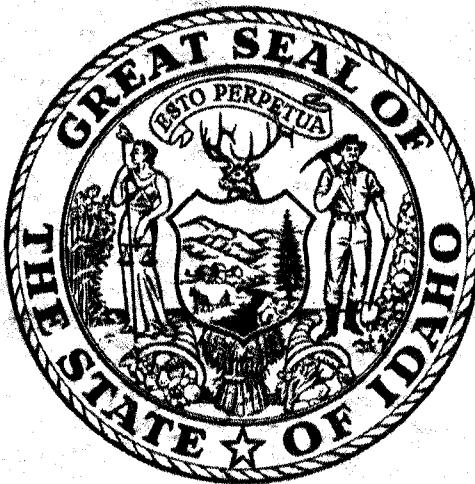


# Graduate Theses on the Geology of Idaho, 1900-1977

Mary P. Gaston

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**Compiled By**

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Moscow, Idaho 83843**

**Information Circular 32  
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# GRADUATE THESES ON THE GEOLOGY OF IDAHO, 1900-1977

Compiled by

Mary P. Gaston<sup>1</sup>

## INTRODUCTION

*Graduate Theses on the Geology of Idaho, 1900-1977* is a compilation of master's and doctoral theses on the geology of Idaho from colleges and universities throughout the United States and Canada. A previous publication by the Idaho Bureau of Mines and Geology, Information Circular 2—*Theses of the College of Mines, University of Idaho, 1911-1957*, listed only the theses of the College of Mines at the University of Idaho. In that publication all departments in the College of Mines were included.

In the present work, the range of theses' subjects is limited to studies on the geology of Idaho. Most theses in geography, mining, hydrology, and metallurgy are omitted, unless they apply to the geology of Idaho. For example, a general study on wastewater disposal would not be cited, whereas a study on waste water at a specific mine in the state would.

The theses are listed alphabetically by author under the year in which the graduate degree was granted. The few theses having multiple authors are referenced under each name. For reader convenience two indexes are appended: an alphabetical list of all theses' authors and a list of degree-granting institutions with their theses' authors.

Every effort has been made to make the *Graduate Theses on the Geology of Idaho, 1900-1977* complete and accurate; however, any additions or corrections from readers should be directed to: Theses Compiler, Idaho Bureau of Mines and Geology, Moscow, Idaho 83843.

## SOURCES USED IN COMPILATION

Much of the information contained in this list came from various files at the Idaho Bureau of Mines and Geology. The following is a list of all other sources consulted during the compilation.

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Webbert, C. A. (compiler), 1975, Checklist of professional papers, theses, dissertations, accepted for higher degrees at the University of Idaho through December 31, 1973, College of Mines only: University of Idaho Library, Publication Number Fourteen, p. 194-209.

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#### ABBREVIATIONS OF GRADUATE DEGREES

M.S. — Master of Science

M.A. — Master of Arts

Ph.D. — Doctor of Philosophy

Sc.D. — Doctor of Science

#### GRADUATE THESES BY YEAR

##### 1900-1901

No theses completed on the geology of Idaho.

##### 1902

Garrey, G. H., 1902, Glaciation between the Rockies and the Cascades in northwestern Montana, northern Idaho, and eastern Washington: University of Chicago, M.S.

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Kingsbury, J. W., 1907, Paragenesis of the ores of the Minnie Moore and adjacent mines of Bellevue, Idaho: Columbia University, M.A.

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##### 1910

Saxe, J. A., 1910, Petrography of contact zones at Elkhorn, Idaho: Columbia University, M.A.

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##### 1920

Elder, R. B., 1920, Treatment of Lincoln Mine ore: University of Idaho, M.S.

##### 1921

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##### 1925

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Sorenson, R. E., 1927, The geology and ore deposits of the South Mountain mining district, Owyhee County, Idaho: University of Idaho, M.S.

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Udell, Stewart, 1928, Contact metamorphism in certain ore deposits of the Seven Devils district, Idaho: University of Idaho, M.S.

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Kirkham, V. R. D., 1930, The geology and oil and gas possibilities of southwestern Idaho: University of Chicago, Ph.D.

Merritt, P. L., 1930, The origin and occurrence of the metallic ore deposits of Idaho: Columbia University, M.A.

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Anderson, A. L., 1931, Geology and mineral resources of eastern Cassia County, Idaho: University of Chicago, Ph.D.

**1932**

Carpenter, J. T., 1932, A tentative correlation of northwestern Tertiary strata: University of Idaho, M.S.

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McDivitt, J. F., 1954, Economic aspects of mineral resource development in southern Idaho: University of Illinois, Ph.D.

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Full, R. P., 1955, Structural relations north of the Osburn Fault, Coeur d'Alene district, Shoshone County, Idaho: University of Idaho, Degree of Geological Engineer.

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Schipper, W. B., 1955, The Tendoy Copper Queen Mine: University of Idaho, M.S.

Starr, R. B., 1955, Geology of the Twin Peaks Mine, Lemhi County, Idaho: Cornell University, M.S.

**1956**

Anzalone, S. A., 1956, Geology of the Inspiration and Silver-ore Mine, Coeur d'Alene district, Idaho: Columbia University, M.A.

Carmichael, V. W., 1956, The relationship of the "soils" of the Palouse to the Columbia River Basalt: University of Idaho, M.S.

Dodge, H. W., 1956, Fusulinids from the Sublett Range, Idaho: University of Kansas, M.S.

Humphreville, J. A., 1956, Fluorspar mineralization on the ridge north of Daugherty Gulch near Challis, Custer County, Idaho: Cornell University, M.S.

Warner, M. A., 1956, The origin of the (Permian) Rex Chert (Idaho, Utah, Montana, Wyoming): University of Wisconsin at Madison, Ph.D.

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Martin, R. C., 1957, Vertical variations within some eastern Nevada ignimbrites: University of Idaho, M.S.

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- Royse, Frank, Jr., 1957, Geology of the Pine Creek Pass area, Big Hole Mountains, Teton and Bonneville Counties, Idaho: University of Wyoming, M.S.
- Schmidt, D. L., 1957, Petrography of the Idaho batholith in Valley County, Idaho: University of Washington, M.S.
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- Sorenson, Arthur, 1957, Petrographic and geochemical investigation of wallrock alteration in the Silver Summit Mine, Coeur d'Alene mining district, Shoshone County, Idaho: University of Washington, M.S.
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 Silverman, A. J., 1958.  
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 Slater, M. N., 1969.  
 Smedley, J. E., 1948.  
 Smith, C. L., 1966.  
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 Spear, D. B., 1975.  
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 Standish, R. P., 1973.  
 Stanley, W. D., 1971.  
 Starr, R. B., 1955.  
 Stephenson, G. R., 1964.  
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 Stott, L. R., 1974.  
 Stout, M. Z., 1975.  
 Strand, J. R., 1949.  
 Strawn, M. B., 1964.  
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 Suhr, D. O., 1964.  
 Swanberg, C. A., 1971.  
 Sweeney, G. T., 1957.  
 Sweet, J. M., 1950 [see Freeman, L. B., 1950].  
 Swirydzuk, Krystyna, 1977.  
 Sylvester, K. A., 1975.  
 Taggart, R. E., 1971.  
 Tailleur, I. L., 1948.  
 Thomasson, M. R., 1959.  
 Thompson, W. H., 1952.  
 Thune, H. W., 1941.  
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 Tillman, C. G., 1950 [see Freeman, L. B., 1950].  
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 Toron, Praphat, 1964.  
 Treves, S. B., 1953.  
 Tucker, D. R., 1975.  
 Tullis, E. L., 1932, 1940.  
 Udell, Stewart, 1928.  
 Upson, R. H., 1940.  
 Vallier, T. L., 1967.  
 VanDorston, P. L., 1969.  
 Vernon, J. A., 1953.  
 Visger, F. J., 1974.  
 Wach, P. H., 1967.  
 Wagner, W. R., 1939, 1947.  
 Waldschmidt, W. A., 1922.  
 Walker, W. P., Jr., 1965.  
 Wallace, R. W., 1972.  
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 Weart, R. C., 1950.  
 West, S. W., 1956.  
 White, B. G., 1969.  
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 White, W. H., 1968.  
 Whitney, M. S., 1975.  
 Wieland, E. P., 1977.  
 Willard, M. E., 1938.  
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 Williams, J. F., III, 1973.  
 Williams, M. M., 1976.  
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 Williams, R. D., 1973.  
 Wilson, R. S., 1963.  
 Wolbrink, M. A., 1970.  
 Woldenburg, M. J., 1958.
- Wood, C. H., 1972.  
 Wornardt, W. W., Jr., 1958.  
 Wracher, D. A., 1969.  
 Wyman, A. F., 1949 [see Newcomb, E. H., 1949].  
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 Yinger, M. A., 1976.  
 Yokley, J. W., 1974.  
 Zakrzewski, R. J., 1968.  
 Ziebell, W. R., 1949.  
 Zilka, N. T., 1969.

#### DEGREE-GRANTING INSTITUTIONS

##### **University of Arizona**

##### **Tucson, Arizona**

Chambers, A. E., 1966.  
 Lehman, N. E., 1966.  
 Olson, H. J., 1968.  
 West, S. W., 1956.

##### **Bowling Green State University**

##### **Bowling Green, Ohio**

McMaster, Larry, 1971.

##### **University of British Columbia**

##### **Vancouver, British Columbia, Canada**

Cheriton, C. G., 1949.

##### **University of Calgary**

##### **Calgary, Alberta, Canada**

Stout, M. Z., 1975.

##### **University of California**

##### **Berkeley, California**

Kiilsgaard, T. H., 1949.  
 Lindsey, E. H., 1958.  
 Nord, G. L., 1973.  
 Shaw, H. R., 1959.  
 Vernon, J. A., 1953.

##### **University of California**

##### **at Los Angeles Los Angeles, California**

Beus, S. S., 1963.

##### **Case Western Reserve**

##### **University**

##### **Cleveland, Ohio**

Saylor, T. E., 1967.

- University of Chicago**  
**Chicago, Illinois**  
 Anderson, A. L., 1931.  
 Garrey, G. H., 1902.  
 Kirkham, V. R. D., 1930.  
 Langton, C. M., 1934.  
 Tullis, E. L., 1940.
- University of Cincinnati**  
**Cincinnati, Ohio**  
 Hrabar, S. V., 1971.
- University of Colorado**  
**Boulder, Colorado**  
 Cook, P. J., 1969.  
 Eyer, J. A., 1964.  
 Stone, G. T., 1967.
- Colorado School of Mines**  
**Golden, Colorado**  
 Baldwin, H. L., Jr., 1960.  
 Donovan, P. R., 1962.  
 Hill, D. P., 1961.  
 LaFehr, T. R., 1962.  
 Pansze, A. J., Jr., 1971.  
 Spoelhof, R. W., 1972.  
 Whitney, M. S., 1975.
- Columbia University**  
**New York, New York**  
 Anderson, R. J., 1938.  
 Anzalone, S. A., 1956.  
 Farwell, F. W., 1936.  
 Keller, A. S., 1963.  
 Kingsbury, J. W., 1907.  
 Long, Austin, 1959.  
 Merritt, P. L., 1930.  
 Mitcham, T. W., 1949, 1953.  
 Nace, R. L., 1960.  
 Nagy, B. S., 1950.  
 Saxe, J. A., 1910.  
 Silverman, A. J., 1958.
- Cornell University**  
**Ithaca, New York**  
 Baldwin, E. M., 1943.  
 Citron, G. P., 1976.  
 Humphreville, J. A., 1956.  
 Johnson, C. H., 1943.  
 Ludlum, J. C., 1942.  
 Patton, W. W., 1948.  
 Shockey, P. N., 1957.  
 Starr, R. B., 1955.  
 Tailleur, I. L., 1948.
- Dartmouth College**  
**Hanover, New Hampshire**  
 Lupton, D. K., 1951.
- Franklin and Marshall College**  
**Lancaster, Pennsylvania**  
 Brown, D. C., 1973.  
 McKelvey, G. E., 1967.
- Harvard University**  
**Cambridge, Massachusetts**  
 Jenks, W. F., 1936.
- University of Idaho**  
**Moscow, Idaho**  
 Alief, M. H., 1962.  
 Allen, R. M., Jr., 1940.  
 Anderson, R. A., 1971.  
 Asher, R. R., 1968.  
 Baillie, W. N., 1960.  
 Bains, T. S., 1961.  
 Barnes, C. W., 1962.  
 Beeder, J. R., 1958.  
 Bennett, E. H., II, 1973.  
 Bezan, A. M., 1974.  
 Bhatti, N. A., 1971.  
 Bishop, D. T., 1974.  
 Bitten, B. I., 1951.  
 Bjornsson, B. J., 1977.  
 Bower, G. J., 1940.  
 Brackebusch, F. W., 1969.  
 Breeser, P. J., 1972.  
 Brim, R. J. P., 1968.  
 Broili, C. J., 1974.  
 Browning, J. S., 1948.  
 Bryant, B. L., 1939.  
 Buffa, J. W., 1976.  
 Bulla, E. W., 1951.  
 Caddey, S. W., 1974.  
 Carder, D. S., 1925.  
 Carlson, J. E., 1951.  
 Carmichael, V. W., 1956.  
 Carpenter, J. T., 1932.  
 Cass, H. K., 1974.  
 Chamberlain, C. C., 1969.  
 Chan, S. S. M., 1966.  
 Chauhan, E. H., 1968.  
 Clark, A. L., 1963, 1968.  
 Clark, S. H. B., 1964, 1967.  
 Coffin, P. E., 1967.  
 Conners, J. A., 1976.  
 Cook, J. D., 1964.  
 De Renne, Paul, 1972, 1976.  
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 Elder, R. B., 1920.  
 Ellis, C. E., 1974.  
 Emigh, G. D., 1933.  
 Eng, F. G., 1960.  
 Faick, J. N., 1937.  
 Fenne, F. K., 1977.  
 Fitzgerald, J. F., 1977.  
 Full, R. P., 1955.  
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 Glerup, M. O., 1960.  
 Greenwood, W. R., 1966, 1968.  
 Hall, H. T., 1961.  
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 Hamilton, J. A., 1961.  
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 Hansen, H. E., 1977.  
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 Hemud, A. R., 1971.  
 Hite, T. H., 1930.  
 Holland, J. S., 1947.  
 Hollenbaugh, K. M., 1959.  
 Holm, R. F., 1962.  
 Holmes, D. A., 1958.  
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 Hsi, Huey-rong, 1960.  
 Huppert, G. M., 1972.  
 Jemmett, J. P., 1955.  
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 Kirkpatrick, G. E., 1974.  
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 Piper, A. M., 1925.  
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 Wilson, R. S., 1963.  
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 Yinger, M. A., 1976.
- Idaho State University  
Pocatello, Idaho**  
 Allen, R. W., 1976.  
 Carlson, R. A., 1968.  
 Gurney, J. W., 1971.  
 Hotchkiss, Samuel, 1976.  
 Kamis, J. E., 1976.  
 Kern, Richard, 1972.  
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 Martin, Peter, 1977.  
 Meyers, W. C., 1968.  
 Middleton, L. T., 1976.  
 Murk, R. C., 1971.  
 Niccum, M. R., 1969.  
 Perkins, Russell, 1977.  
 Ridenour, James, 1971.  
 White, R. J., 1971.  
 Wieland, E. P., 1977.  
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 Zilka, N. T., 1969.
- University of Illinois  
Urbana, Illinois**  
 McDivitt, J. F., 1954.  
 Tom, G. F., 1950.  
 Weart, R. C., 1950.  
 Ziebell, W. R., 1949.
- Indiana State University  
Terre Haute, Indiana**  
 Ozier, R. L., 1972.  
 White, D. L., 1972.
- Johns Hopkins University  
Baltimore, Maryland**  
 Wagner, W. R., 1947.
- University of Kansas  
Lawrence, Kansas**  
 Dodge, H. W., 1956.  
 Funk, J. M., 1977.  
 Johns, W. S., 1961.  
 Knoll, K. M., 1973.
- Lehigh University  
Bethlehem, Pennsylvania**  
 Citrone, Jeffrey, 1977.
- Massachusetts Institute  
of Technology  
Cambridge, Massachusetts**  
 Gillson, J. L., 1923.  
 Waldschmidt, W. A., 1922.
- Miami University  
Oxford, Ohio**  
 Coppinger, Walter, 1974.  
 Price, W. H., 1971.  
 Tucker, D. R., 1975.
- University of Michigan  
Ann Arbor, Michigan**  
 Adam, W. L., 1949.  
 Bayless, J. C., 1947.  
 Benner, R. W., 1948.  
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 Hileman, M. E., 1969, 1973.  
 Kildal, Edwin, 1949.  
 Krusekopf, L. M. C., 1947.  
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 McUsic, J. M., 1949.  
 Myers, P. E., 1968.  
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 Newcomb, E. H., 1949.  
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 Stott, L. R., 1974.  
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 Zakrzewski, R. J., 1968.

**Michigan State University**  
**East Lansing, Michigan**  
 Taggart, R. E., 1971.

**University of Minnesota**  
**Minneapolis, Minnesota**  
 Becker, Jacques, 1969.  
 Bright, R. C., 1963.  
 Crosby, G. M., 1959.  
 Davidson, D. M., 1928.  
 Gray, F. A., 1927.

**University of Missouri**  
**Columbia, Missouri**  
 Ponder, Herman, 1959.

**University of Missouri at Rolla**  
**Rolla, Missouri**  
 Tibbs, N. H., 1972.

**University of Montana [formerly**  
**Montana State University]**  
**Missoula, Montana**  
 Breuninger, R. H., 1971.  
 Brittenham, Marvin, 1973.  
 Bryan, T. S., 1974.  
 Chase, R. B., 1968.  
 Cox, B. E., 1973.  
 Eakins, G. R., 1953.  
 Ferguson, J. A., 1972.  
 Harris, Richard, 1974.  
 Huebschman, R. P., 1972.  
 Jens, John, 1972.  
 Johnson, B. R., 1975.  
 Nichols, Ralph, 1976.  
 Nold, J. L., 1968.  
 Norwick, S. A., 1972.  
 White, B. G., 1969.

**Montana State University**  
**[formerly Montana State**  
**College]**  
**Bozeman, Montana**  
 Maxwell, D. T., 1965.

**University of New Mexico**  
**Albuquerque, New Mexico**  
 Harrington, E. R., 1930.  
 Purdue, G. L., 1975.

**State University of New York**  
**at Buffalo**  
**Buffalo, New York**  
 Champion, D. E., 1973.  
 Karlo, J. F. M., 1977.  
 Kelley, L. M., 1975.  
 Koscielniak, D. E., 1973.  
 Murphy, J. D., 1973.  
 Spear, D. B., 1975.

**Northwestern University**  
**Evanston, Illinois**  
 Churkin, Michael, Jr., 1961.  
 Cramer, H. R., 1954.  
 Gibbs, R. E., 1960.  
 King, J. F., 1959.  
 Kraetsch, R. B., Jr., 1950.  
 Shannon, J. P., 1960.

**University of Oklahoma**  
**Norman, Oklahoma**  
 Hedrick, O. F., 1924.

**University of Oregon**  
**Eugene, Oregon**  
 Harper, K. R., 1963.  
 Leeman, W. P., 1974.  
 Mathias, D. E., 1959.  
 Morrison, R. F., 1963.  
 Schetter, W. C., 1962.

**Oregon State University**  
**Corvallis, Oregon**  
 Axelsen, Claus, 1973.  
 Bruce, W. R., 1971.  
 Fankhauser, R. E., 1968.  
 Henricksen, T. A., 1974.  
 King, J. R., 1971.  
 Long, R. C., 1976.  
 Moran, J. L., 1971.  
 Murray, C. L., 1973.  
 Skurla, S. J., 1974.  
 Slater, M. N., 1969.  
 Vallier, T. L., 1967.  
 White, W. H., 1968.  
 Wracher, D. A., 1969.

**Pennsylvania State University**  
**University Park, Pennsylvania**  
 Beutner, E. C., 1968.  
 Hait, M. H., Jr., 1965.  
 Huh, O. K., Jr., 1963, 1965,  
 1968.  
 Knowles, R. R., 1961.  
 Koesters, Baerbel, 1963.

Landis, C. A., Jr., 1963.  
 Lucchitta, B. K., 1966.  
 M'Gonigle, J. W., 1965.  
 Ramspott, L. D., 1962.  
 Ryder, R. T., 1968.  
 Smith, J. G., 1961.

**University of Pittsburgh**  
**Pittsburgh, Pennsylvania**  
 Brooks, B. W., 1934.

**Princeton University**  
**Princeton, New Jersey**  
 Maxey, G. B., 1951.

**Queens College**  
**Flushing, New York**  
 Della Valle, R. S., 1975.

**Queen's University at Kingston**  
**Kingston, Ontario, Canada**  
 Haffner, B. K., 1941.

**Southern Methodist University**  
**Dallas, Texas**  
 Swanberg, C. A., 1971.

**Stanford University**  
**Stanford, California**  
 Armstrong, F. C., 1963.  
 Clark, B. R., 1967.  
 Dort, Wakefield, Jr., 1955.  
 Griggs, A. B., 1952.

**University of Toronto**  
**Toronto, Ontario, Canada**  
 Thompson, W. H., 1952.

**University of Utah**  
**Salt Lake City, Utah**  
 Anderson, N. R., 1965.  
 Bright, R. C., 1960.  
 Gerwels, R. P., 1951.  
 Gin, Thon Too, 1953.  
 Haynie, A. V., Jr., 1957.  
 Kayser, R. B., 1964.  
 Keller, A. S., 1952.  
 Khatab, M. M. M., 1969.  
 Podrebarac, T. J., 1976.  
 Quitzau, R. P., 1961.  
 Smith, R. A., 1975.  
 Stanley, W. D., 1971.  
 Strawn, M. B., 1964.

**Utah Agricultural College [see**  
**Utah State University]**

**Utah State University [formerly Utah Agricultural College]**  
**Logan, Utah**  
 Adamson, R. D., 1955.  
 Axtell, D. C., 1967.  
 Biessinger, J. C., 1973.  
 Burton, S. M., 1973.  
 Campbell, D. P., 1974.  
 Davidson, D. F., 1969.  
 Davis, C. L., 1969.  
 Eliason, J. F., 1969.  
 French, D. E., 1975.  
 Fuller, R. H., 1975.  
 James, W. C., 1973.  
 McClurg, L. W., 1970.  
 Mendenhall, A. J., 1975.  
 Murdock, C. N., 1961.  
 Peterson, Harold, 1929.  
 Peterson, V. E., 1936.  
 Prammani, Prapath, 1957.  
 Raymond, L. C., 1971.  
 Schulingkamp, W. J., II, 1972.  
 VanDorston, P. L., 1969.  
 Wach, P. H., 1967.  
 Willard, P. D., 1972.

**University of Washington**  
**Seattle, Washington**  
 Bond, J. G., 1962.  
 Dover, J. H., 1966.  
 Kotschevar, D. D., 1938.  
 Ptacek, A. D., 1965.  
 Roberts, R. J., 1938.  
 Schmidt, D. L., 1957, 1961.  
 Sorenson, Arthur, 1957.  
 Williams, P. L., 1957.

**Washington State University**  
 [formerly State College of Washington]  
**Pullman, Washington**  
 Camp, V. E., 1976.  
 Cavin, R. E., 1964.  
 Ferrians, O. J., 1958.  
 Graham, C. E., 1949.  
 Green, W. R., 1976.  
 Holden, G. S., 1974.  
 Kleck, W. D., 1976.  
 Kleweno, W. P., 1958.  
 Ko, Chong An, 1974.  
 Lewis, S. E., 1968.  
 Lin, Chang-lu, 1967.  
 McIntyre, D. H., 1966.  
 Morganti, J. M., 1972.  
 Peterson, D. O., 1959.  
 Peterson, D. W., 1951.  
 Ringe, L. D., 1968.  
 Stephenson, G. R., 1964.  
 Strand, J. R., 1949.

**Washington University**  
**St. Louis, Missouri**  
 Campbell, A. B., 1949.

**Eastern Washington State College**  
**Cheney, Washington**  
 Russell, E. F., 1974.  
 Visger, F. J., 1974.

**State College of Washington**  
 [see Washington State University]

**Western Washington State College**  
**Bellingham, Washington**  
 Ellis, S. D., 1970.

**University of Wisconsin**  
**Madison, Wisconsin**  
 Aalto, K. R., 1970.  
 Barnes, C. W., 1965.  
 Bollman, D. D., 1971.  
 Furter, L. C., 1967.  
 Gruber, D. P., 1975.  
 McKelvey, V. E., 1947.  
 Morgan, W. A., 1977.  
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 Warner, M. A., 1956.  
 Wolbrink, M. A., 1970.  
 Woldenburg, M. J., 1958.  
 Wornardt, W. W., Jr., 1958.

**University of Wisconsin**  
**Milwaukee, Wisconsin**  
 Larson, T. A., 1974.  
 Lukowicz, L. J., 1971.  
 Pacquett, A. L., Jr., 1971.  
 Pruitt, J. D., 1971.  
 Shunik, T. W., 1974.  
 Yokley, J. W., 1974.

**University of Wyoming**  
**Laramie, Wyoming**  
 Andrau, William, 1958.  
 Espeach, R. H., Jr., 1957.  
 Hinds, G. W., 1958.  
 Merritt, Z. S., 1958.  
 Royse, Frank, Jr., 1957.  
 Sorenson, G. E., Jr., 1961.

**Yale University**  
**New Haven, Connecticut**  
 Bushnell, K. O., 1955.  
 Coulter, H. W., Jr., 1954.