

CORRESPONDENTS, FELLOWS, MEMBERS AND SUBSCRIBERS OF THE MINERALOGICAL SOCIETY OF AMERICA

CORRESPONDENTS

- ESKOLA, PENTTI, Geological Survey of Finland, Helsingfors, Finland.
 FERSMAN, A. E., Geological and Mineralogical Museum, Academy of Science, Leningrad,
 U.S.S.R.
 LACROIX, A., Museum of Natural History, Paris, France.
 SLAVIK, FRANTISEK, Charles University, Prague VI, Czechoslovakia.
 SPENCER, L. J., 111 Albert Bridge Road, London, S.W. 11, England.
 TILLEY, C. E., Cambridge University, Cambridge, England.

FELLOWS AND MEMBERS

(* Indicates Fellow)

- *ADAMS, ELLIOT Q., Lamp Development Laboratory, Nela Park, Cleveland, Ohio.
 Adams, John W., Empire Zinc Company, Hanover, New Mexico.
 *AGAR, WILLIAM M., 182 East End Avenue, New York 28, New York.
 AGRELL, S. O., Department of Geology, University of Manchester, Manchester, 13, Eng-
 land.
 *AHLFELD, FRIEDRICH, Casilla 873, La Paz, Bolivia.
 *ALDRICH, HENRY R., 419 West 117 Street, New York 27, New York.
 ALEXANDER, A. E., 155 East 47 Street, New York, New York.
 ALF, RAYMOND M., Webb School, Claremont, California.
 ALLEN, C. M., 624 North Cascade Avenue, Colorado Springs, Colorado.
 *ALLEN, VICTOR T., U. S. Geological Survey, Washington 25, D. C.
 *ALLING, HAROLD L., 31 Barrington Street, Rochester 7, New York.
 *ANDERSON, ALFRED LEONARD, Cornell University, Ithaca, New York.
 *ANDERSON, CHARLES A., Department of Geology and Mineralogy, University of Cali-
 fornia, Berkeley, California.
 ANDERSON, CHRIS S., Route 1, Box 111, Selma, California.
 *ANDERSON, GEORGE H., Lone Star Steel Co., Dangerville, Texas.
 ANDERSON, J. L., Department of Geology, Johns Hopkins University, Baltimore, Mary-
 land.
 ANDERSON, KEITH, U. S. Geological Survey, Geology Annex, Iowa City, Iowa.
 ANDERSON, RICHARD J., 4759 14th Avenue, South, Minneapolis, Minnesota.
 ANDREW, GERALD, Box 244, Khartoum, Anglo-Egyptian Sudan, Africa.
 ANDREWS, T. G., University of Alabama, University, Alabama.
 ANGSTROM, ANDREW, Stratford, Iowa.
 ARELLANO, A. R. V., Sr., Apartado 7527, Mexico, D. F., Mexico.
 ARMSTRONG, ELIZABETH, 425 West 23rd Street, New York, New York.
 ASHBY, D. F., Department of Geology, The University, Bristol, 8, England.
 *ASHCROFT, FREDERICK N., Department of Mineralogy, University Museum, Oxford,
 England.
 AUSTIN, J. A., c/o Atlas Lumnite Cement Company, Gary (Buffington Station), Indiana.
 AXELROD, JOSEPH, U. S. Geological Survey, Washington 25, D. C.
 AYRES, VINCENT L., Michigan College of Mines and Technology, Houghton, Michigan.

- BAILEY, A. M., Colorado Museum of Natural History, City Park, Denver, Colorado.
BAILEY, DONALD, Saranac Laboratory, Saranac Lake, New York.
BAILEY, EDGAR H., Box 2496, Reno, Nevada.
*BAIN, GEORGE W., 12 Dana Street, Amherst, Massachusetts.
BALDINELLI, J., Diagonal Norte 567, Buenos Aires, Argentina, South America.
BALES, C. E., Ironton Firebrick Co., Ironton, Ohio.
BALKE, CLAIRE C., P.O. Box 5370, Metropolitan Station, Los Angeles 55, California.
BALL, KATHRYN C., 1409 West Boston, Detroit 6, Michigan.
BALSLEY, J. R., JR., U. S. Geological Survey, Washington 25, D. C.
*BANDY, M. C., Patino Mines and Enterprises, Siglo XX, Llallagua, Bolivia, South America.
BANK, A. C., Holden, Washington.
BANK, WALTER, PFC., 6th Photo. Comp. Sq., Peterson Field, Colorado.
*BANNERMAN, HAROLD M., 5102 Jamestown Road, N.W., Washington 16, D. C.
*BANNISTER, F. A., 34 Monahan Avenue, Purley, Surrey, England.
BARCLAY, GEORGE C., P.O. Box 314, Newport News, Virginia.
BARLETT, HELEN BLAIR, A-C Spark Plug Company, Flint, Michigan.
BARRETT, RICHARD L., 1502 East 118 Street, Cleveland, Ohio.
*BARTH TOM F. W., Mineralogisk Institut, Blindern, Oslo, Norway.
*BASCOM, FLORENCE, Williamstown, Massachusetts.
*BASTIN, EDSON S., University of Chicago, Chicago, Illinois.
*BATEMAN, ALAN M., Yale University, New Haven, Connecticut.
BATES, THOMAS F., Department of Geology, Pennsylvania State College, State College, Pennsylvania.
*BAUER, LAWSON H., New Jersey Zinc Company, Franklin, New Jersey.
BEAL, I. A., Route 1, Box 615, Campbell, California.
BEARD, E. H., The Imperial Institute, London, S.W. 7, England.
*BEHRE, CHARLES H., Columbia University, New York, New York.
BELL, D. H., 2931 Ridgeway Avenue, St. Louis County, Missouri.
BELL, GORDON L., 485 Elwood Avenue, Oakland, California.
*BELL, JAMES FORBES, 4 Arlington Road, Woburn, Massachusetts.
BENEDICT, S. G., 2321 Fargo Street, Los Angeles, California.
BENNER, R. C., Research Laboratory, Carborundum Company, Niagara Falls, New York.
BERG, GEORGE N., MM1c, USN, USS Russell, c/o Fleet PO, San Francisco, California.
BERKELHAMER, LOUIS H., Southern Experiment Station, U. S. Bureau of Mines, Tuscaloosa, Alabama.
*BERMAN, HARRY, 12 Geological Museum, Harvard University, Cambridge, Massachusetts.
BERNHEIMER, ALAN W., Department of Bacteriology, New York University College of Medicine, 477 First Avenue, New York, New York.
*BERRY, LEONARD G., 89 Dewson Street, Toronto, Canada.
BETZ, FREDERICK, JR., U. S. Bureau of Mines, Washington, D. C.
*BILLINGS, MARLAND P., Harvard University, Cambridge, Massachusetts.
BINGHAM, E. BURRIS, 936½ West 76 Street, Los Angeles 44, California.
BREN, MRS. HELEN A., Brooklyn College, Brooklyn, New York.
BJAREBY, GUNNAR, 147 Worthington Street, Boston, Massachusetts.
BLANK, HORACE R., Box 414, Temple, Texas.
BOGUE, RICHARD G., 404 Rutherford Avenue, Franklin, New Jersey.
BOKOVOY, SAMUEL, 75 Elmwood Road, Verona, New Jersey.
*BOWEN, NORMAN L., University of Chicago, Chicago, Illinois.
*BOWLES, OLIVER, U. S. Bureau of Mines, Washington, D. C.

- BOZBAG, HAMDI, c/o National Geophysical Company, Dallas, Texas.
- *BRADLEY, W. F., Illinois State Geological Survey, Urbana, Illinois.
- *BRAMLETTE, MILTON N., Department of Geology, University of California at Los Angeles, California.
- BRANT, ARTHUR M., Lord Hall, Ohio State University, Columbus, Ohio.
- BRINEMAN, JOHN H., c/o Socony-Vacuum Oil Company de Venezuela, Apartado Aereo, 4034, Apartado Nacional 1140, Bogotá, Colombia.
- BRIXEY, A. D., JR., Hales Bar Dam, Guild, Tennessee.
- BROWN, ARTHUR H., 2920 Walbrook Avenue, Baltimore, Maryland.
- BROWN, GROVE E., 4915 Agnes Avenue, North Hollywood, California.
- BROWN, W. R., Virginia Geological Survey, Charlottesville, Virginia.
- *BRUCE, E. L., Queen's University, Kingston, Ontario, Canada.
- BRYANT, W. M. D., R.F.D. 3, Silverside Road, Wilmington, Delaware.
- BUCKELEW, HAROLD C., 1048 Broad Street, Newark, New Jersey.
- *BUDDINGTON, ARTHUR F., Princeton University, Princeton, New Jersey.
- *BUERGER, MARTIN J., Massachusetts Institute of Technology, Cambridge, Massachusetts.
- BUIE, BENNETT FRANK, Box 951, Warrenton, Virginia.
- *BULLARD, FRED M., 903 West 30 Street, Austin, Texas.
- BUNTON, PAUL B., Spencer Lens Co., Box 4208, Atlanta, Georgia.
- BURANEK, ALFRED M., 1166 East 6th Street, South, Salt Lake City, Utah.
- *BURBANK, WILBUR S., U. S. Geological Survey, Washington, D. C.
- BURFOOT, JAMES D., JR., Cornell University, Ithaca, New York.
- *BUTLER, G. MONTAGUE, Box 4186, University Station, Tucson, Arizona.
- BUTLER, JOHN W., JR., Apartado Aereo 3577, Bogotá, Colombia, South America.
- BUTLER, ROBERT D., 215 George Mason Road, Falls Church, Virginia.
- CALLAHAN, WILLIAM H., Franklin, New Jersey.
- CALVER, JAMES L., TVA, 601 Arnstein Building, Knoxville, Tennessee.
- *CAMERON, EUGENE N., Columbia University, New York 27, New York.
- *CAMPBELL, CHARLES D., U. S. Geological Survey, Colville, Washington.
- *CAMPBELL, IAN, California Institute of Technology, Pasadena, California.
- CANNON, RALPH S., JR., U. S. Geological Survey, Washington, D. C.
- CAPLAN, ALLAN, Room 906, 562 Fifth Avenue, New York, New York.
- CAPPS, MRS. EDNA WARD, 1823 Jefferson Place, N.W., Washington, D. C.
- CARL, HOWARD F., 1615 Noyes Drive, Silver Spring, Maryland.
- CARR, DELBERT BEN, 1530 Corson Street, Pasadena 4, California.
- *CHAPMAN, CARLETON A., Department of Geology, University of Illinois, Urbana, Illinois.
- CHAPMAN, ERNEST W., 1934 Mill Road, South Pasadena, California.
- *CHAPMAN, RANDOLPH, Department of Geology, Johns Hopkins University, Baltimore Maryland.
- CHAYES, FELIX, 4104 Queensbury Road, Hyattsville, Maryland.
- CHESLEY, FRANK G., Massachusetts Institute of Technology, Cambridge, Massachusetts.
- CHESTERMAN, CHARLES W., 1311 Beale Avenue, Bakersfield, California.
- CHUTE, NEWTON E., 44 Tremlett Street, Dorchester, Massachusetts.
- CISTAR, LOUIS A., 129 Avenue B, Rochester, New York.
- CLAFFY, MRS. ESTHER M., Room G-241-C, U. S. Geological Survey, Washington, D. C.
- *COATS, ROBERT, Alaskan Branch, U. S. Geological Survey, Washington, D. C.
- *COLBURN, BURNHAM S., Greystone Court, Biltmore, North Carolina.
- *COLBURN, WILLIAM B., 720 South Lucerne Boulevard, Los Angeles, California.

- *CONNOLLY, JOSEPH P., 1804 West Boulevard, Rapid City, South Dakota.
 COOK, KATHRYN H., 3301 St. Paul Street, Baltimore, Maryland.
- *COOKE, S. R. B., Montana School of Mines, Butte, Montana.
 COOLEY, MARY E., 793 South Forest Avenue, Ann Arbor, Michigan.
 COOPER, JOHN R., U. S. Geological Survey, 707 Peyton Building, Spokane, Washington.
- *CORBETT, CLIFTON S., 3634 Elbow Drive, Calgary, Alberta, Canada.
 CORBIN, L. P., JR., 210 Tyler Street, Sandusky, Ohio.
 COURTRIGHT, HUGH C., 4940 East End Avenue, Chicago, Illinois.
 CRAMER, JOE L., 938 South Ash Street, Wichita 9, Kansas.
 CRAWFORD, ARTHUR L., 1067 East Fifth Street South, Salt Lake City, Utah.
- *CRAWFORD, R. D., 1050 Tenth Street, Boulder, Colorado.
 CRESS, SAMUEL H., 1648 Park Road, N.W., Washington, D. C.
 CRICKMAY, GEOFFREY W., Box 549, Athens, Georgia.
 CRIPPEN, RICHARD A., Idria, San Benito County, California.
 CROPPER, WALLACE J., 4410 Cayuga Avenue, New York 63, New York.
 CRUNDEN, A. B., 54 Edgemont Road, Montclair, New Jersey.
 CUMMINS, A. B., 602 East Front Street, Plainfield, New Jersey.
- *CURRIER, LOUIS W., U. S. Geological Survey, Washington, D. C.
 CUTHBERT, F. LEICESTER, Soil Science Laboratory, Dept. of Civil Engineering, Princeton University, Princeton, New Jersey.
- DAKE, H. C., 703 Couch Building, Portland, Oregon.
 DALEY, A. COWLES, 1191 North Los Robles, Pasadena, California.
 DARNEAL, ROBERT L., P.O. Box 94, Stanford University, California.
 DAVIDSON, NORMAN, 5611 Fifth Street, N.W., Washington 11, D. C.
 DAVIDSON, STANLEY C., 152 Wembley Drive, Sudbury, Ontario, Canada.
 DAVIS, DONALD W., Scarsdale Manor Apts., R-North, Scarsdale, New York.
 DAVIS, HARRY T., North Carolina State Museum, Raleigh, North Carolina.
 DENNING, REYNOLDS M., 843 Thurston Road, Rochester, New York.
 DENNIS, WILLIAM ENGS, JR., Box 373, Newport, Rhode Island.
 DENNY, M. V., Mineralogical Laboratory, University of Michigan, Ann Arbor, Mich.
 DERR, HERMAN, 329 N.W. 13 Street, Oklahoma City, Oklahoma.
 DESMOND, THOMAS C., 941 Broadway, Newburg, New York.
 DIETZ, ROBERT S., Army Air Force Navigation School, Hondo, Texas.
 DODGE, THEODORE A., Cananea Consolidated Copper Company, Cananea, Sonora, Mexico.
- *DONNAY, JOSEPH D. H., 2926 New Road, Roselle, Wilmington, Delaware.
 DOUGLAS, GORDON S., 2201 Georgiana Avenue, Santa Monica, California.
 DOYLE, C. C., San Francisco Mines of Mexico, Ltd., San Francisco del Oro, Chihuahua, Mexico.
- DRAEGER, R. H., Captain (MC), U.S.N. Naval Medical Research Institute, Bethesda 14, Maryland.
 DRAISIN, WILBURT M., Majestic Radio & Television Company, 2600 West 50 Street, Chicago, Illinois.
 DRAKE, HARRY Y., 44 Laurel Avenue, East Orange, New Jersey.
 DREYER, ROBERT M., Ens. USNR, Dehaussing Division, Navy Yard, Pearl Harbor, Hawaii.
- DU PONT, J. M., Myersville Road, Chatham, New Jersey.
 DURANO-DECANO, GUILLERMO E. (Sr), de la Facultad de Farmacia, Tegucigalpa, D. C., Honduras, Centro America.

- *ECKEL, EDWIN B., U. S. Geological Survey, Washington, D. C.
EDMUNDSON, R. S., Virginia Geological Survey, Box 1428, University Station, Charlottesville, Virginia.
- EGGLESTON, JULIUS W., Cuttingsville, Vermont.
- EHRMANN, MARTIN L., Major, 3900 Greystone Avenue, New York 63, New York.
- *ELLSWORTH, H. V., Canada Geological Survey, Ottawa, Canada.
- ELWELL, WILBUR J., 2 Duck Street, Danbury, Connecticut.
- EMERY, ALDEN H., 1155 16th Street, N.W., Washington, D. C.
- *EMMONS, RICHARD C., University of Wisconsin, Madison, Wisconsin.
- ENGEL, ALBERT E. J., Swallow Hall, Columbia, Missouri.
- ERDMAN, CHARLES R., 224 Custom House, Denver, Colorado.
- EVANS, HOWARD T., JR., 850 Massachusetts Avenue, Apt. 10, Cambridge, Massachusetts.
- EVERS, JOHN R., 19 South Broadway, Tarrytown, New York.
- *FAESSLER, CARL, Bibliotheque "D," Faculte des Sciences, Boulevard de l'Entente, Quebec, Canada.
- *FAHEY, JOSEPH J., U. S. Geological Survey, Washington, D. C.
- FAHRNEY, CLYDE N., 210 East Main Street, Waynesboro, Pennsylvania.
- *FAIRBAIRN, HAROLD W., Massachusetts Institute of Technology, Cambridge, Massachusetts.
- *FAIRCHILD, JOHN G., U. S. Geological Survey, Washington, D. C.
- *FAUST, GEORGE T., P.O. Box 22, Forest Glen, Maryland.
- FELDMAN, CYRUS, 414 Kennedy St., N.W., Washington 11, D. C.
- *FENNER, CLARENCE N., 64 Broad St., Clifton, New Jersey.
- FERGUSON, R. B., 27 Rich Avenue, Galt, Ontario, Canada.
- *FETTKER, CHARLES R., 1118 Wightman Street, Squirrel Hill Station, Pittsburgh, Pennsylvania.
- *FISHER, D. JEROME, University of Chicago, Chicago, Illinois.
- *FISHER, LLOYD W., Bates College, Lewiston, Maine.
- FISHER, ROBERT D., 604 West 11 Street, Rolla, Missouri.
- FISK, HENRY G., General Delivery, Laramie, Wyoming.
- FLACK, WYLIE H., 333 Borbeck Street, Philadelphia, Pennsylvania.
- FLAGG, A. L., Box 2345, Phoenix, Arizona.
- FLEENER, F. L., 222 South Park Road, Joliet, Illinois.
- FLEISCHER, ARTHUR, 1021 East South Temple Street, Salt Lake City, Utah.
- *FLEISCHER, MICHAEL, U. S. Geological Survey, Washington, D. C.
- FOOTE, FREEMAN, U.S.N.R., U.S.N.A.S., Quonset Point, Rhode Island.
- FORD, DON MERRILL, PHM 2/c USNR, Naval Air Facility, Navy No. 624, Six Two Four, c/o Fleet Post Office, San Francisco, California.
- FORD, GEORGE, 2d, St. Paul's School, Concord, New Hampshire.
- *FORD, HUGH ALEXANDER, 57 Larchwood Drive, Cambridge, Massachusetts.
- *FOSHAG, WILLIAM F., U. S. National Museum, Washington, D. C.
- FOSTER, GIRAUD V., 1088 Park Avenue, New York, New York.
- FOSTER, MARGARET D., U. S. Geological Survey, Washington, D. C.
- FOSTER, PHILIP C., R.D. 1, South Berwick, Maine.
- FOSTER, WILDER D., 4800 Forbes Street, Pittsburgh, Pennsylvania.
- FOSTER, WILFRID R., Champion Spark Plug Company, 8525 Butler Avenue, Detroit, Michigan.
- FOX, PORTLAND P., Box 31, Charleston, Tennessee.
- FRANKUCHEN, I., Polytechnic Institute of Brooklyn, Brooklyn, New York.

- *FRASER, DONALD M., Bethlehem Steel Company, Bethlehem, Pennsylvania.
 FREEZE, ARTHUR C., Consolidated Mining and Smelting Company, Kimberley, British Columbia, Canada.
 FRETZ, A. HENRY, 42 West Market Street, Bethlehem, Pennsylvania.
 FRIES, CARL, JR., U. S. Geological Survey, Washington, D. C.
 *FRONDEL, CLIFFORD, 147-18 38 Avenue, Flushing, New York.
 FRUEH, ALFRED J., JR., 34 Perry Street, New York, New York.
 *FULLER, RICHARD E., 1642 Federal Avenue, Seattle, Washington.
 FUNK, B. GORDON, 2667½ Waverly Drive, Los Angeles, California.
- GABRIEL, ALTON, U. S. Bureau of Mines, College Park, Maryland.
 *GALBRAITH, F. W., University of Arizona, Tucson, Arizona.
 *GALLAGHER, David, 349 Clark Road, Brookline, Massachusetts.
 GALLONI, E., Granaderos 155, Buenos Aires, Argentina, South America.
 GATES, ELLIS H., Cerro de Pasco Corp., La Oroya, Peru.
 GATES, GEORGE O., Alaskan Branch, U. S. Geological Survey, Washington, D. C.
 GATES, ROBERT M., 410 South Orchard Street, Madison, Wisconsin.
 GAUDIN, A. M., Room 8-211, Massachusetts Institute of Technology, Cambridge, Massachusetts.
 GAULT, H. RICHARD, Alaskan Branch, U. S. Geological Survey, Washington, D. C.
 GEORGE, D'ARCY R., 117 Haws Avenue, Norristown, Pennsylvania.
 GERSON, FRED, 5421 Cornell Street, Hyde Park Station, Chicago, Illinois.
 *GIANELLA, VINCENT P., Mackay School of Mines, Reno, Nevada.
 GIBSON, J. C., Bissett, Manitoba, Canada.
 GILLESPIE, T. B., Palatka, Florida.
 GILLINGHAM, THOMAS E., 615 Market Street, Oxford, Pennsylvania.
 *GILLSON, JOSEPH L., 8063 Du Pont Building, Wilmington, Delaware.
 *GILLULY, JAMES, University of California at Los Angeles, California.
 *GLASS, JEWELL J., U. S. Geological Survey, Washington, D. C.
 GODDARD, E. N., U. S. Geological Survey, Washington, D. C.
 GOETTMAN, FRANKLIN P., 1121 Queen Street, Pottstown, Pennsylvania.
 *GOLDICH, SAMUEL S., 700 Sunset Road, State College, Pennsylvania.
 GOLDRING, EWART D., c/o Vanadium Corporation of America, Naturita, Colorado.
 GOMEZ, E., Diagonal Norte 567, Buenos Aires, Argentina, South America.
 GONZALES-BONORINO, Felix, Direccion de Minas y Geologia, Peru 562, Buenos Aires, Argentina, S. A.
 GOODMAN, CLARK, 77 Massachusetts Avenue, Cambridge, Massachusetts.
 *GOODSPEED, GEORGE E., University of Washington, Seattle, Washington.
 *GORDON, SAMUEL G., Philadelphia Academy of Natural Sciences, Logan Circle, Philadelphia, Pennsylvania.
 *GORDON, WILLIAM THOMAS, Kings College, London W.C. 2, England.
 GOUDY, HATFIELD, Box 401, Yerington, Nevada.
 GOULETTE, C. HENRY, Lt., 480 Armed Inf., 1135 East 7th Street, Hopkinsville, Kentucky.
 *GRAHAM, R. P. D., McGill University, Montreal, Canada.
 GRAHL, HARRY, 885 Cauldwell Avenue, Bronx, New York.
 *GRATON, LOUIS C., Harvard University, Cambridge, Massachusetts.
 GRAVES, HOWARD B., JR., 1099 Linden Avenue, Memphis, Tennessee.
 *GRAW, OLIVER R., Missouri School of Mines, Rolla, Missouri.
 GREENE, KENNETH T., 4008 Brandywine Street, N.W., Washington, D. C.
 *GREIG, JOSEPH W., Geophysical Laboratory, Washington, D. C.

- GRIEGER, J. M., 405 Ninita Parkway, Pasadena, California.
GRIFFITTS, WALLACE R., P.O. Box 1694, Little Rock, Arkansas.
*GRIM, RALPH E., Illinois Geological Survey, Urbana, Illinois.
GROSS, EUGENE B., 676 West Lockwood Avenue, Webster Groves, Missouri.
*GROUT, FRANK F., University of Minnesota, Minneapolis, Minnesota.
*GRUNER, JOHN W., University of Minnesota, Minneapolis, Minnesota.
GRUNIG, J. K., U. S. Geological Survey, Washington, D. C.
GULOVSON, MRS. C. M., Brothers, Oregon.
GUMMER, WILFRID K., 815 Fifth Street, Arvida, Quebec, Canada.
- HADDOCK, WILLIAM J., 101 N. Clark Drive, Los Angeles 36, California.
HAFF, JOHN C., Colorado School of Mines, Golden, Colorado.
HAGNER, ARTHUR F., University of Wyoming, Laramie, Wyoming.
HALBOUTY, MAJOR MICHEL T., No. 5 West Lane, Houston 6, Texas.
HALL, F. P., R.F.D. 2, Syracuse, New York.
*HALLIMOND, ARTHUR FRANCIS, Geological Survey and Museum, Exhibition Road, So. Kensington, London, S.W., 7, England.
HAM, WILLIAM EUGENE, State Geological Survey, Norman, Oklahoma.
HAMPTON, R. T., 1182 Washington Boulevard, Baltimore 30, Maryland.
HANLEY, JOHN B., U. S. Geological Survey, Box 147, Golden, Colorado.
*HARCOURT, GEORGE A., Copper Cliff, Ontario, Canada.
HARMAN, C. G., Department of Ceramic Engineering, University of Illinois, Urbana, Illinois.
HATCH, ROBERT A., Corning Glass Works, Corning, New York.
HAUZE, GEORGE E., P.O. Box 326, Fairlawn, New Jersey.
*HAWKINS, A. C., 101 East 5th Street, Plainfield, New Jersey.
*HAWLEY, JAMES E., Queen's University, Kingston, Ontario, Canada.
HAYDON, NICHOLAS, 29 West 56th Street, New York, New York.
HAYES, JUNIUS J., 1148 East First Street South, Salt Lake City, Utah.
HEINEMAN, ROBERT E. S., 20 Calle Conquista, Tucson, Arizona.
HENDERSON, DONALD M., 37 Elm Street, Wellesley, Massachusetts.
*HENDERSON, EDWARD P., U. S. National Museum, Washington, D. C.
*HENDRICKS, STERLING B., 3045 Albemarle Street, N.W., Washington, D. C.
*HESS, FRANK L., 1221 Newton Street, N.E., Washington, D. C.
*HESS, HARRY H., Princeton University, Princeton, New Jersey.
*HEWETT, D. F., U. S. Geological Survey, Washington, D. C.
HEWITT, D. F., Pilot Officer, No. 1, C.N.S., R.C.A.F., Rivers, Manitoba, Canada.
HEYL, ALLEN V., JR., R.F.D. 2, Allentown, Pennsylvania.
HEYL, GEORGE R., Box 324, Jackson, California.
HICKOK, WILLIAM O., IV, R.F.D. 1, Linglestown, Pennsylvania.
HILL, H. STANTON, Pasadena Junior College, Pasadena 4, California.
HILLS, RALPH F., 35 Manchester Street, Hartford, Connecticut.
HILLS, THOMAS M., Vassar College, Poughkeepsie, New York.
HINCKLEY, ARTHUR T., 937 Harrison Avenue, Niagara Falls, New York.
*HODGE, EDWIN T., 2915 Luray Terrace, N.W., Portland, Oregon.
*HOLDEN, GUERDON S., Plain Dealer Building, Cleveland, Ohio.
*HOLMES, ARTHUR, Science Laboratory, South Road, Durham, England.
HOLMES, RALPH J., Columbia University, New York, New York.
HOOKER, MARJORIE, 32-14 146 Street, Flushing, New York.

HOSE, HEATH ROYDON, Aluminium Laboratories, 1800 Sun Life Building, Montreal, Quebec, Canada.

HOWARD, ROBERT T., SGT., #32345721, 5th Ord. Co. (M.M.), A.P.O. #758, c/o Postmaster, New York, New York.

*HOWLAND, ARTHUR L., Northwestern University, Evanston, Illinois.

HUBER, DAVID M., 133 Maple Street, Springfield, Massachusetts.

HUGILL, WILLIAM, Langham House, Fields Road, Alsager, Cheshire, England.

*HUNT, WALTER F., University of Michigan, Ann Arbor, Michigan.

*HURLBUT, C. S., JR., Harvard University, Cambridge, Massachusetts.

HUSTED, JOHN E., 1448 Girard St., N.W., Washington, D. C.

HUTTON, C. OSBORNE, 156, The Terrace, Wellington, New Zealand.

*INGERSON, EARL, Geophysical Laboratory, Washington, D. C.

INGLESBY, A. L., 1633 East 13th South, Salt Lake City, Utah.

*INSLEY, HERBERT, Bureau of Standards, Washington, D. C.

IRWIN, WILLIAM H., 215 East 19 Avenue, Denver, Colorado.

JACOBS, ELBRIDGE C., University of Vermont, Burlington, Vermont.

JACOBS, LOUIS J., c/o The S. Obermayer Co., 2563 W. 18th Street, Chicago, Illinois.

JAE, JAMES F., 5510 Waterman Boulevard, St. Louis, Missouri.

JARRELL, O. W., Apt. 2-A, 431 Riverside Drive, New York 25, New York.

JEFFRIES, CHARLES D., Department of Agronomy, Agricultural Building, State College, Pennsylvania.

JENSEN, DAVID E., 199 East Brook Road, Pittsford, New York.

*JOHANNSEN, ALBERT, University of Chicago, Chicago, Illinois.

JOHANSSON, FREDERICK V., 96 Boutelle St., Leominster, Massachusetts.

JOHNSON, J. HARLAN, Box 343, Golden, Colorado.

JOHNSON, W. M., Route 4, Knoxville, Tennessee.

*JOHNSTON, R. A. A., 112 Old Forest Hill Road, Toronto 10, Canada.

*JOHNSTON, WILLIAM D., JR., c/o American Consul, Rio de Janeiro, Brazil.

*JOLLIFFE, ALFRED W., Canada Geological Survey, Ottawa, Canada.

*JONES, GARDNER H., 8 Hill Street, Lakeport, New Hampshire.

JONES, KENT, 2406 Connor Avenue, Joplin, Missouri.

JUDD, E. F., 14 Bruce Road, Upper Montclair, New Jersey.

KARLSSON, ALBERT, 3042 Grand Concourse, New York, New York.

KASSNER, MYER J., 628 Main Street, Laconia, New Hampshire.

KAUFFMAN, A. J., JR., 4205 Russell Avenue, Mt. Rainier, Maryland.

*KEEVIL, NORMAN BELL, University of Toronto, Toronto 5, Canada.

KELLER, KENNETH F., ENS., LCT 5, Flotilla 5, #158, U. S. Navy 60, c/o Fleet Post Office, San Francisco, California.

*KELLER, W. D., 208 Swallow Hall, Columbia, Missouri.

KENNEDY, GEORGE C., U. S. Geological Survey, Washington, D. C.

*KERR, PAUL F., Columbia University, New York 27, New York.

KERR-LAWSON, MRS. FERGA C., Box 5, Swastika, Ontario, Canada.

KESSLER, CHARLES N., No. 3 Berg Apts., Helena, Montana.

KIPNIS, JOSEPH S., 15 West 46 Street, New York, New York.

KNABE, WILLIAM C., 3853 North Gratz Street, Philadelphia, Pennsylvania.

*KNOPF, ADOLPH, Yale University, New Haven, Connecticut.

KOEBEL, CHARLES J., 9456 Grinnell Street, Detroit 13, Michigan.

- *KOSCHMANN, A. H., U. S. Geological Survey, Washington, D. C.
- *KRAUS, EDWARD H., University of Michigan, Ann Arbor, Michigan.
- *KRISHNAN, M. S., 27 Chowringhee, Calcutta, India.
- KUENSTLER, WALTER E., 410 Lafayette Avenue, Grantwood, New Jersey.
- KUHN, TRUMAN H., Colorado School of Mines, Golden, Colorado.
- KULL, SRTA. V., Terrada 550, Buenos Aires, Argentina.
- KURBATOV, J. D., Ohio State University, Columbus, Ohio.
- LADOO, RAYMOND B., 42 Huntington Road, Newton, Massachusetts.
- LA LANDE, W. A., JR., 3144 Passyunk Avenue, Philadelphia, Pennsylvania.
- LAMONT, ALEX J., Nenana, Alaska.
- *LANDES, KENNETH K., University of Michigan, Ann Arbor 7, Michigan.
- *LANE, ALFRED C., 22 Arlington Street, Cambridge, Massachusetts.
- LANGFORD, LAWRENCE, 949 Krameria Street, Denver, Colorado.
- *LARSEN, ESPER S., JR., 59 Orchard Street, Belmont, Massachusetts.
- LARSEN, ESPER S., 3rd, 8501 Greenwood Avenue, Takoma Park, Maryland.
- LAUSEN, CARL, 3009 East Central Avenue, Albuquerque, New Mexico.
- *LEE, HARVEY C., Basic Magnesium, Inc., Box MM, Boulder City, Nevada.
- *LEE, O. IVAN, 2684 Boulevard, Jersey City, New Jersey.
- LEINEWEBER, I. A., 2718 Bainbridge Avenue, Bronx, New York.
- LEMCKE, W. L., 609 14 Street, Franklin, Pennsylvania.
- LEMKE, RICHARD W., 363 North Glebe Road, Arlington, Virginia.
- LEMMON, DWIGHT M., 2180 Bryant Street, Palo Alto, California.
- LEVIN, S. BENEDICT, U. S. Bureau of Mines, Hanover, New Hampshire.
- LEWIS, FRANK A., 721 East 35 Street, Brooklyn, New York.
- LEWIS, W. SCOTT, 2500 North Beachwood Drive, Hollywood 28, California.
- DE LIMA, PLINIO, Rua Vitorino Carmillo 565, Sao Paulo, Brazil.
- LINCOLN, EARLE, Holberg, British Columbia, Canada.
- LINDBERG, MARIE LOUISE, U. S. Geological Survey, Washington 25, D. C.
- LOHSE, R. A., 1923 Alfred Boulevard, Richmond, California.
- LOMERSON, WILLIAM W., Shore Road, New Rochelle, New York.
- *LONSDALE, JOHN T., Lt. Col., c/o B. C. Lonsdale, Winfield, Iowa.
- *LOPEZ, VICTOR M., Servicio Tecnico de Geologia, Caracas, Venezuela.
- *LOUDERBACK, GEORGE D., University of California, Berkeley, California.
- *LOUGHLIN, G. F., U. S. Geological Survey, Washington 25, D. C.
- *LOVERING, T. S., University of Michigan, Ann Arbor, Michigan.
- LOWE, KURT E., Lt., 196 Rockaway Parkway, Brooklyn, New York.
- LUKASHER, K. I., 3355 16th Street N.W., Washington, D. C.
- LUKESH, JOSEPH S., 374 Norwood Avenue, Long Branch, New Jersey.
- LYONS, ERWIN J., Wisconsin Institute of Technology, Platteville, Wisconsin.
- MACDONALD, GORDON A., Geological Survey, 333 Federal Building, Honolulu, Hawaii.
- MACKAY, RALPH E., 2923 East Harrison Street, Seattle, Washington.
- MACKENZIE, G. S., Department of Geology, University of New Brunswick, Fredericton, New Brunswick, Canada.
- MALONE, GEORGE H., Andm. Asst., Planning Division, Pearl Harbor, T. H.
- *MANCHESTER, JAMES H., 325 16th Avenue, N.E., St. Petersburg, Florida.
- *MARBLE, JOHN P., 37 East Bradley Lane, Chevy Chase, Maryland.
- MARSHALL, E. M., Bethel, Connecticut.
- *MARTENS, JAMES H. C., 2925 University Avenue, Morgantown, West Virginia.

- MARTIN, E. B., Westbury, Long Island, New York.
 MASON, VINCENT I., 117 Beech Street, Roslindale, Massachusetts.
 MATHEWSON, H. D., Box 733, Buena Vista, Virginia.
 MAURICE, CHARLES S., Charleston, South Carolina.
 MAWBY, M. A., Zinc Corporation, Ltd., Broken Hill, New South Wales, Australia.
 MAYBANK, N. W., Mullard Radio Valve Co. Ltd., New Road, Mitcham Junction, Surrey, England.
 *MAYNARD, JAMES E., Syracuse University, Syracuse, New York.
 *MCCAUGHEY, WILLIAM J., Ohio State University, Columbus, Ohio.
 *MCCONNELL, DUNCAN, Bureau of Reclamation, Customhouse, Denver, Colorado.
 McCULLOUGH, J. L., Independence, California.
 McDONALD, C. V., 827 West 104 Place, Los Angeles, California.
 *McKINSTRY, HUGH E., 1499 Irving St., N.W., Washington 10, D. C.
 *McLAUGHLIN, DONALD H., Cerro de Pasco Copper Corporation, 31st Floor, 40 Wall Street, New York 1, New York.
 McCLELLAN, ROY D., American Smelting & Refining Company, Barber, New Jersey.
 McLEOD, EDITH, 413 High Street, Klamath Falls, Oregon.
 *McVAY, THOMAS N., School of Chemistry, University of Alabama, University, Alabama.
 *MEAD, WARREN J., Massachusetts Institute of Technology, Cambridge, Massachusetts.
 *MEEN, V. BEN, University of Toronto, Toronto, Canada.
 MENCHER, ELY, Instituto de Geologia, Avenida San Martin, Caracas, Venezuela.
 MENNINCER, C. F., 3617 West 6th Avenue, Topeka, Kansas.
 MERGNER, JOHN L., 5519 Nevada Avenue, N.W., Washington, D. C.
 *MERRITT, CLIFFORD A., University of Oklahoma, Norman, Oklahoma.
 *MERRITT, PHILLIP L., 9823 Shore Road, Brooklyn, New York.
 *MERTIE, JOHN B., JR., U. S. Geological Survey, Washington, D. C.
 *MERWIN, H. E., Geophysical Laboratory, Washington, D. C.
 MESQUITA, J., Box 310, Manoa, Amazonas, Brazil.
 MEYER, CHARLES, No. 14 Columbia Gardens, Butte, Montana.
 MILHORAT, A. T., 25 East 68 Street, New York, New York.
 MILLAR, HUGH H., 3752 Montgomery Avenue, Detroit, Michigan.
 MILLER, FRANKLIN S., 1029 Bryden Road, Columbus, Ohio.
 MILLER, JOHN A., 505 Saint Martin Street, Fort Wayne, Indiana.
 MILLER, LANE, Box 2125, Georgia School of Technology, Atlanta, Georgia.
 MILLER, RUDOLPH, Bausch and Lomb Optical Co., 635 Paul Street, Rochester, New York.
 *MILLER, WILLIAM J., University of California at Los Angeles, California.
 *MILTON, CHARLES, U. S. Geological Survey, Washington, D. C.
 *MISER, HUGH D., U. S. Geological Survey, Washington, D. C.
 MITCHELL, LANE, Box 2125, Georgia School of Technology, Atlanta, Georgia.
 MITCHELL, R. C., 601 Pelham Parkway, N., Bronx, New York.
 MOEBS, N. N., 7200 Chatham Street, Chevy Chase 15, Maryland.
 MONEYMAKER, BERLEN C., 510-A, Union Building, Knoxville, Tennessee.
 MONTGOMERY, ARTHUR, 277 Park Avenue, New York, New York.
 *MOORE, E. S., University of Toronto, Toronto 5, Canada.
 MORGAN, LEONARD A., 14 Lincoln Avenue, Dover, New Jersey.
 MORIN, LEO G., Institut de Geologie, Universite de Montreal, 1265 Rue St. Denis, Montreal, Canada.
 *MORRIS, FREDERICK K., Massachusetts Institute of Technology, Cambridge, Massachusetts.
 MOYD, LOUIS, Frobisher Exploration Company, Bancroft, Ontario, Canada.

- MURATA, K. J., U. S. Geological Survey, Washington, D. C.
- *MURDOCH, JOSEPH, University of California at Los Angeles, California.
- MURPHY, RICHARD, 244 Bay Street, Toronto, Canada.
- MURRAY, ALBERT N., University of Tulsa, Tulsa, Oklahoma.
- MYERS, V. DALE, 2187 Glen Avenue, Altadena, California.
- *MYERS, WILLIAM M., School of Mineral Industries, Pennsylvania State College, State College, Pennsylvania.
- NAGELSCHMIDT, G., Rothamstead Experiment Station, Harpenden, Herts, England.
- NALLE, PETER B., Bethelhem Pike, Whitemarsh, Pennsylvania.
- NEIMAN, ROBERT, 505 East Chestnut Street, Louisville 2, Kentucky.
- NEL, HANS JURIE, Geological Survey, Box 401, Pretoria, Union of South Africa.
- NELSON, GAYLORD, 916 Delaware Avenue, Buffalo, New York.
- NEWCOMET, WILLIAM S., 3501 Baring Street, Philadelphia, Pennsylvania.
- *NEWHOUSE, WALTER H., Massachusetts Institute of Technology, Cambridge, Massachusetts.
- NICHOLS, HENRY W., Chicago Museum of Natural History, Chicago 5, Illinois.
- NICHOLS, JOSEPH B., 2914 D Street, Sacramento, California.
- NICHOLS, MAURICE C., 1431 Park Avenue, Long Beach, California.
- NILES, GLENN H., P.O. Box 4, Ridgewood, New Jersey.
- NISSON, WILLIAM H., 15 Batchelor Terrace, Petaluma, California.
- *NOBLE, JAMES A., Homestake Mining Company, Lead, South Dakota.
- *NOLAN, THOMAS B., U. S. Geological Survey, Washington, D. C.
- NORTHUP, M. ALLEN, 10 Godet Place, Morristown, New Jersey.
- NUTTING, P. G., U. S. GEOLOGICAL SURVEY, Washington, D. C.
- O'CONNELL, DANIEL T., College of the City of New York, Convent Avenue & 139 Street, New York, New York.
- OKE, WILLIAM C., 9115 South Harvard Boulevard, Los Angeles, California.
- O'LEARY, W. J., 956 Niagara Avenue, Niagara Falls, New York.
- OLSON, BOYD H., 131 Main, Orofino, Idaho.
- OLSON, J. C., U. S. Geological Survey, Washington, D. C.
- ORTEGA, FRANCISCO BARROSO, Universidad de la Habana, Habana, Cuba.
- *OSBORN, E. F., Geophysical Laboratory, Washington, D. C.
- OSBORN, J. P., 714 East Boulder, Colorado Springs, Colorado.
- OTERSEN, LILLIAN M., 16 Grove Place, West Haven, Connecticut.
- OVER, EDWIN J., JR., Park Hotel, Livingston, Montana.
- *PABST, ADOLF, University of California, Berkeley, California.
- PAGE, JAMES J., U. S. Geological Survey, Washington 25, D. C.
- PAGE, LINCOLN R., U. S. Geological Survey, Washington, D. C.
- *PALACHE, CHARLES, 106 Appleton Street, Cambridge, Massachusetts.
- PARRISH, WILLIAM, North American Philips Company, Dobbs Ferry, New York.
- *PARSONS, ARTHUR L., Royal Museum of Mineralogy, 100 Queen's Park, Toronto 5, Canada.
- PARSONS, WILLARD H., National Bureau of Standards, Washington, D. C.
- PATTEN, PHILIP R., 735 Peralta Avenue, Berkeley, California.
- *PEACOCK, MARTIN A., University of Toronto, Toronto, Canada.
- PEARCE, D. W., Purdue University, Lafayette, Indiana.

- PEARL, RICHARD M., 819 South University, Denver, Colorado.
 PECORA, WILLIAM T., U. S. Geological Survey, Washington, D. C.
 *PEGAU, ARTHUR A., Rugby Road, Charlottesville, Virginia.
 *PEOPLES, JOE WEBB, Wesleyan University, Middletown, Connecticut.
 PERHAM, STANLEY I., West Paris, Maine.
 PEREIRA, CYRO RIBEIRO, Rua José Bonifacio, 250 11th, Sao Paulo, Brazil.
 PERRY, ELWYN L., Williams College, Williamstown, Massachusetts.
 PETERSON, HARRY, 1138 South Chapel Street, Alhambra, California.
 PETERSON, NELS P., Box 1211, Globe, Arizona.
 *PETTIJOHN, FRANCIS J., University of Chicago, Chicago, Illinois.
 PHAIR, GEORGE, Geophysical Laboratory, Washington, D. C.
 PHEMISTER, T. C., University of Aberdeen, Marischal College, Aberdeen, Scotland.
 PHILBRICK, SHAILER S., 426 Walnut Road (2) Ben Avon, Pittsburgh, Pennsylvania.
 PHILBROOK, MRS. P. M., Box 184, Sacramento, California.
 PICARD, LEO, The Hebrew University, Jerusalem, Palestine.
 PIERCE, ALBERT C., 470 Gainesboro Road, Drexel Hill, Pennsylvania.
 POPE, G. N., 1820 Bay Street, Alameda, California.
 POSTEL, WILLIAM, University of Pennsylvania, Philadelphia, Pennsylvania.
 *POUGH, FREDERICK H., American Museum of Natural History, New York, New York.
 PRINGLE, LEWIS B., 1862 Battery, Little Rock, Arkansas.
 PRUDICH, FRANK, Powellton, West Virginia.
 *QUINN, ALONZO W., Brown University, Providence, Rhode Island.
 *QUIRKE, T. T., University of Illinois, Urbana, Illinois.
 RABBITT, JOHN C., 14 Elm Street, Wellesley Hills, Massachusetts.
 *RAMSDELL, LEWIS S., University of Michigan, Ann Arbor, Michigan.
 REAMER, LOUIS, 336 Elizabeth Street, Orange, New Jersey.
 REED, FRANK S., 3118 Rittenhouse Street, N.W., Washington, D.C.
 REEVES, AUGUSTUS, c/o International Smelting Company, Wendover, Utah.
 REYES, JORGE MUNOZ, Apartado 267, La Paz, Bolivia.
 *RICHMOND, WALLACE E., JR., 2333 South Nash Street, Arlington, Virginia.
 RIDGE, JOHN D., Major, Engineer School, Fort Belvoir, Virginia.
 *RIES, H., 401 Thurston Avenue, Ithaca, New York.
 RILEY, JAMES H., Box 323, Eugene, Oregon.
 RINN, HAROLD W., 2917 Braley Court, Midland, Michigan.
 RITCHIE, EVERETT J., 1842 Selby, St. Paul, Minnesota.
 ROBERTSON, FORBES, The Principia College, Elsah, Illinois.
 ROBINSON, G. D., U. S. Geological Survey, Washington 25, D. C.
 RODEKOH, W. J., 304 Westminster Avenue, Alhambra, California.
 RODSKY, BERNARD, 117 Rettger Street, St. Marys, Pennsylvania.
 ROEDDER, EDWIN, University Club, 62 East Market Street, Bethlehem, Pennsylvania.
 *ROGERS, AUSTIN F., Stanford University, California.
 ROGERS, W. T., 1230 Parkway Avenue, Salt Lake City, Utah.
 ROLLINS, ROSS, 79 Cypress Street, Brookline, Massachusetts.
 ROS, EMILIO, Diagonal Norte 567, Buenos Aires, Argentina.
 ROSENHOLTZ, JOSEPH L., Rensselaer Polytechnic Institute, Troy, New York.
 ROSENKRANS, R. R., 3 North Meridian Street, Red Key, Indiana.
 *ROSS, CLARENCE S., U. S. Geological Survey, Washington, D. C.

- ROWLAND, R. A., Lt., Ballistic Research Laboratory, Ordnance Research Center, Aberdeen Proving Ground, Maryland.
- ROYAL, H. F., Director of Research, Champion Spark Plug Co., Ceramic Division, 8525 Butler Avenue, Detroit 11, Michigan.
- RUNNER, DELMAR G., 4606 47 Street, N.W., Washington, D. C.
- *RUNNER, JOSEPH J., Houghton, Michigan.
- *RUTHERFORD, RALPH L., University of Alberta, Edmonton, Alberta, Canada.
- RUTHRUFF, ROBERT F., 1711 West 100 Street, Chicago, Illinois.
- RYNEARSON, GARN A., 14412 Kittridge Street, Van Nuys, California.
- SACHS, WALTER P., 254 Bloomfield Avenue, Caldwell, New Jersey.
- SAFFORD, ARTHUR T., JR., 333 Homestead Avenue, Hartford, Connecticut.
- SALETET, LOUIS, University of Dayton, Dayton 9, Ohio.
- *SAMPSON, EDWARD, Princeton University, Princeton, New Jersey.
- SAMPTER, E. L., 25 West 46 Street, New York, New York.
- SAN MARTIN Y SAENZ, Rene, Universidad de la Habana, Habana, Cuba.
- SANDBERG, A. E., Box 413, Cocoli, Canal Zone.
- SANTELL, S. J., General Delivery, Orrick, Missouri.
- *SCHAIRER, JOHN F., Geophysical Laboratory, Washington, D. C.
- *SCHALLER, WALDEMAR T., U. S. Geological Survey, Washington, D. C.
- SCHLECHT, WILLIAM G., U. S. Geological Survey, Washington, D. C.
- SCHLOCKER, J., Box 554, Boulder City, Nevada.
- *SCHMITT, HARRISON A., Box 572, Silver City, New Mexico.
- *SCHNEIDER, HYRUM, University of Utah, Salt Lake City, Utah.
- SCHOENLAUB, R. A., 147½ North Washington Street, Tiffin, Ohio.
- *SCHRADER, FRANK C., 20 Old Chester Road, Bethesda, Maryland.
- SCHWARTZ, B., 1884 Monroe Avenue, Bronx 57, New York.
- *SCHWARTZ, GEORGE M., University of Minnesota, Minneapolis, Minnesota.
- SEGAL, ALLAN, c/o Industrial Engineering Dept., Federal Telephone and Radio Corporation, 591 Broad Street, Newark, New Jersey.
- SETZ, C. F., 265 North Union Boulevard, St. Louis, Missouri.
- SHACKELFORD, G. E., 4340 Fairfax Avenue, Dallas, Texas.
- SHAININ, VINCENT E., U. S. Geological Survey, Washington 25, D. C.
- *SHAND, S. JAMES, Columbia University, New York 27, New York.
- *SHAUB, BENJAMIN M., 159 Elm Street, Northampton, Massachusetts.
- SHERMAN, WALTER C., 27 Doro Place, Rumford, Rhode Island.
- SHIPTON, W. D., Washington University, St. Louis, Missouri.
- *SHORT, MAX N., University of Arizona, Tucson, Arizona.
- SHORTLE, WALTER, 505 Main Street, Laconia, New Hampshire.
- SIDWELL, RAYMOND, Dept. of Geology, Texas Technological College, Lubbock, Texas.
- SIEVERS, D. C., 245 West Ravine Road, Kingsport, Tennessee.
- SILBERSTEIN, M. L., 516 Sul Ross Avenue, Houston, Texas.
- SIMONS, FRANK S., 467 Landfair Street, West Los Angeles, California.
- *SINGEWALD, QUENTIN D., University of Rochester, Rochester, New York.
- SKEA, E. M., Box 46, Pilgrims Rest, Transvaal, South Africa.
- *SLAWSON, CHESTER B., University of Michigan, Ann Arbor, Michigan.
- SMEDES, HARRY, Grand Hotel, Walla Walla, Washington.
- SMITH, F. GORDON, Geophysical Laboratory, Washington, D. C.
- SMITH, HAROLD M., R.F.D. Grenville Road, Woonsocket, Rhode Island.
- SMITH, KNOWLES B., University of Notre Dame, Notre Dame, Indiana.

- SMITH, PETER A., Box 183, Highland Mills, New York.
SMITH, ROBERT L., Fair Oaks, California.
SMITH WALDEN A., Pvt., #39376495 Co. C, 116 Medical Battalion, A.P.O. 41, U. S. Army,
c/o P. M., San Francisco, California.
SMITH, WARD, U. S. Geological Survey, Washington, D. C.
*SNELGROVE, ALFRED K., Michigan College of Mines and Technology, Houghton, Michigan.
SNIFFEN, E. W., 3111 Chesapeake Avenue, Hampton, Virginia.
SNOW, ROLAND B., Research Laboratory, U. S. Steel Corporation, Kearny, New Jersey.
SNYDER, FRANK G., University of Tennessee, Knoxville, Tennessee.
SOHLBERG, RUDOLPH G., 225 Bush Street, San Francisco, California.
*SPENCE, HUGH S., Canada Department of Mines, Ottawa, Canada.
SPERRY, ARTHUR B., Kansas State College of Agriculture and Applied Science, Manhattan, Kansas.
SPIOFF, KIRIL, Houghton, Michigan.
SPROAT, IRA E., Gorham Avenue, Westport, Connecticut.
*STANTON, GILMAN S., 245 West 104 Street, New York, New York.
*STAPLES, LLOYD W., University of Oregon, Eugene, Oregon.
STARBIRD, L. H., 1st Lt., 48 Clinton Street, Portland 7, Maine.
*STARK, JOHN T., Northwestern University, Evanston, Illinois.
STEAD, FRANK, 66 East 83 Street, New York 28, New York.
STEEDMAN, R. D., 17 Sayville Row, Newcastle on Tyne, England.
*STEIGER, GEORGE, U. S. Geological Survey, Washington, D. C.
*STEVENS, ROLLIN E., U. S. Geological Survey, Washington, D. C.
*STEVENSON, JOHN S., Department of Mines, Parliament Buildings, Victoria, British Columbia, Canada.
STEVENSON, MRS. JOHN S., 1340 Richardson Street, Victoria, British Columbia, Canada.
*STEWART, DUNCAN, Lehigh University, Bethlehem, Pennsylvania.
STIPP, RICHARD A., 7611 Eastern Avenue, Takoma Park, Maryland.
STOBBE, HELEN, Baldwin House, Northampton, Massachusetts.
STOIBER, RICHARD E., 3111 20 Street, North, Arlington, Virginia.
STOLL, WALTER C., 4404 52 Street, N.E., Seattle, Washington.
*STOW, MARCELLUS H., 4851 21 Road, North, Arlington, Virginia.
STRINGHAM, BRONSON, University of Utah, Salt Lake City, Utah.
*STUCKEY, J. L., 1911 Sunset Drive, Raleigh, North Carolina.
SUDA, JOHN S., Box 1104, Warren, Ohio.
SWANSON, HOWARD E., Pvt., Barrack 3, Hospital Br., Post Med. Sect., Camp McCoy, Wisconsin.
SWAYNE, W. H., Department of Geology, Anaconda Copper Company, Butte, Montana.
SWEARENGEN, J. C., Hazel-Atlas Glass Company, Zanesville, Ohio.
SWITZER, GEORGE, Department of Geology, Yale University, New Haven, Connecticut.
*TABER, STEPHEN, University of South Carolina, Columbia, South Carolina.
TATGE, ELEANOR, 5811 14 Street, N.W., Washington, D. C.
TAYLOR, EDWARD D., Captain, R.C.E., Ken House, Caulfield, British Columbia, Canada.
TAYLOR, RALPH E., Freeport Sulphur Company, 1804 American Bank Building, New Orleans, Louisiana.
TERRILL, ARTHUR C., Box 1150, Las Vegas, Nevada.
THATCHER, RUSSELL N., 33 Washington Square West, New York, New York.
THIBAUT, NEWMAN W., Norton Company, Worcester, Massachusetts.

- THOMAS, W. HERSEY, 145 East Gorgas Lane, Mt. Airy, Philadelphia, Pennsylvania.
- THOMPSON, CLYDE L., Harbison Walker Refractories Co., Hays, Pittsburgh, Pennsylvania.
- THOMPSON, M. R., Bureau of Mines, Norris, Tennessee.
- THOMPSON, ROBERT M., 4064 West 34th Avenue, Vancouver, B. C.
- *THOMPSON, ELLIS, University of Toronto, Toronto, Canada.
- THUNE, HOWARD W., Apartment 10B, 2104 Hills Avenue, Tampa, Florida.
- *TOLMAN, CARL, Washington University, St. Louis, Missouri.
- TOMLINSON, W. HAROLD, 260 North Rolling Road, Springfield, Pennsylvania.
- TOOTHAKER, CHARLES R., Commercial Museum, 34 Street and Spruce, Philadelphia, Pennsylvania.
- TRAINER, DAVID W., JR., 48 Payne Street, Hamilton, New York.
- TRAINER, J. N., 233 East 62 Street, New York, New York.
- TREFETHEN, JOSEPH M., Maine Geological Survey, Orono, Maine.
- TREFETHEN, JOSEPH M., Fernald Hall, University of Maine, Orono, Maine.
- TREMBLAY, ABBÉ J. A., Seminaire de Chicoutimi, Comte de Chicoutimi, Quebec, Canada.
- TRIMBLE, CLINTON E., 3796 Degnan Boulevard, Los Angeles, California.
- TRUDELL, HARRY W., 303 Highland Avenue, Abington, Pennsylvania.
- *TUNELL, GEORGE, Geophysical Laboratory, Washington, D. C.
- TUROBINSKI, T. J., 1958 East 83rd Street, Cleveland, Ohio.
- TUTHILL, ISABEL H., 1366 Pacific Street, Brooklyn, New York.
- TUTTLE, O. F., Geophysical Laboratory, Washington, D. C.
- UPSON, CHARLES G., R.F.D. 1, Box 150, West Cheshire, Connecticut.
- VALENTINE, WILBUR G., Brooklyn College, Brooklyn, New York.
- VALLARDI, FRANCISCO, Cerrito 138, Buenos Aires, Argentina.
- VAN ALSTINE, E., Alaskan Branch, U. S. Geological Survey, Washington, D. C.
- VANCE, R. C., Woodland Road, Long Meadow, Pittsford, New York.
- VANDERIEKE, PAUL, Route 5, Box 177, Bakersfield, California.
- VHAY, JOHN STEWART, U. S. Geological Survey, Washington, D. C.
- VICKERS, A. ERIC J., Hazeldene, Junction Road, Norton-on-Tees, County Durham, England.
- VIETZKE, FRED W. C., R.F.D. #1, Box 10, Rapid River, Michigan.
- DE VILLIERS, J. E., Geological Survey, Box 401, Pretoria, Union of South Africa.
- VITALIANO, CHARLES J., Sierra Magnesite Co., Luning, Nevada.
- *VON SCHLICHTEN, OTTO, University of Cincinnati, Cincinnati, Ohio.
- *VONSEN, M., Petaluma, California.
- WADE, F. ALTON, 111 Walnut Street, Oxford, Ohio.
- WAHLSTROM, E. E., University of Colorado, Boulder, Colorado.
- WALDO, ALLEN W., 1335 North Van Buren, Stockton, California.
- WALDSCHMIDT, W. A., 3156 North Speer Boulevard, Denver, Colorado.
- WALKER, CHARLES W., 702 Cherry Avenue, Orange, Texas.
- *WALLACE, ROBERT C., Queen's University, Kingston, Ontario, Canada.
- WALTER, CHARLES, JR., Caprock, New Mexico.
- WALTON, MATT S., JR., Box 32, Cabin John, Maryland.
- WARNER, ROBERT E., 2980 Pingree Avenue, Detroit, Michigan.
- WARRACH, HENRY C., Box 768, Memphis, Tennessee.

- WASSERSTEIN, B., Geological Survey, Union of South Africa, Pretoria, South Africa.
- *WATSON, E. H., Bryn Mawr College, Bryn Mawr, Pennsylvania.
- WATSON, KENNETH DEP., Department of Mines, Victoria, British Columbia, Canada.
- WAYLAND, RUSSELL G., Capt., Arlington Village, Apartment 602, Arlington, Virginia.
- WEBB, ROBERT, University of California at Los Angeles, California.
- WEEKS, CHARLES A., Red Gate Lane, Meredith, New Hampshire.
- WEIDHAAS, ERNEST, 63 Iden Avenue, Pelham Manor, New York.
- *WEIDMAN, SAMUEL, 512 Lahoma Street, Norman, Oklahoma.
- WELLMAN, WALTER L., 2205 Alamo Drive, Albuquerque, New Mexico.
- WELLNITZ, ANNA M., Brooklyn College, Brooklyn, New York.
- *WELLS, ROGER C., U. S. Geological Survey, Washington, D. C.
- WERNER, GEORGE R., 229 Whitford Avenue, Nutley, New Jersey.
- WEST, C. D., Polaroid Corporation, 718 Main Street, Cambridge, Massachusetts.
- *WESTGATE, LEWIS G., 124 Oak Hill Avenue, Delaware, Ohio.
- WHEATCROFT, JOHN, Box 76A, R.R. 6, Richmond, Virginia.
- *WHERRY, EDGAR T., 27 Oberlin Avenue, Swarthmore, Pennsylvania.
- WHITAKER, GEORGE C., 825 E. Schaaf Road, R.F.D. 3, Cleveland, Ohio.
- WHITE, GEORGE W., Ohio State University, Columbus, Ohio.
- *WHITLOCK, HERBERT P., American Museum of Natural History, New York, New York.
- WHITNEY, ROSCOE J., Buckingham Road, Leominster, Massachusetts.
- *WIGGLESWORTH, EDWARD, 69 Newbury Street, Boston, Massachusetts.
- WILLEMS, H. W., 215 Cedar Street, Corning, New York.
- WILLIAMS, CHARLES R., 27 Thackeray Road, Wellesley Hills, Massachusetts.
- WILLIAMS, NORMAN C., 762 8th Avenue, Salt Lake City, Utah.
- WILLIS, WILLETT R., 1343 North Nevada Avenue, Colorado Springs, Colorado.
- WILLOW, STEPHEN B., 2 W. 47th Street, New York, New York.
- *WINCHELL, ALEXANDER N., University of Wisconsin, Madison, Wisconsin.
- WINCHELL, HORACE, Hamilton Watch Company, Lancaster, Pennsylvania.
- WISHART, JAMES S., 56 Hammond Street, Rochester, New York.
- WITHROW, JAMES R., 77 16 Avenue, Columbus, Ohio.
- *WOLFE, C. W., Boston University, Boston, Massachusetts.
- *WOODFORD, ALFRED O., 443 West 10 Street, Claremont, California.
- WOODHOUSE, C. D., 33 Mimosa Lane, Santa Barbara, California.
- WOODRUFF, T. L., 3480 Morganford Road, St. Louis, Missouri.
- WOODS, ARTHUR E., 115 West Shore Boulevard, Tampa, Florida.
- *WRIGHT, FREDERICK E., 2134 Wyoming Avenue, Washington, D. C.
- WRIGHT, MEREDITH (MISS), 14108 Becket Road, Shaker Heights (Cleveland 20), Ohio.
- WRIGHT, THOMAS A., 1161 Stillman Avenue, Plainsfield, New Jersey.
- YALE, R. B., 6600 Sunset Boulevard, Los Angeles, California.
- YOUNG, FORD, Department of Geology, Columbia University, New York, New York.
- YOUNG, GEORGE, 3453 West 1st, Los Angeles, California.
- YOUNG, JOHN A., JR., Michigan State College, East Lansing, Michigan.
- ZEIHEN, LESTER G., Chile Exploration Company, Chuquicamata, Chile.
- ZEMAN, FREDERIC D., 111 East 88 Street, New York, New York.
- ZERFOSS, SAMUEL, Pennsylvania State College, State College, Pennsylvania.
- ZIMANYI, D. F., Magyar Nemzeti Museum, Budapest, Hungary.
- ZIMMER, PAUL W., Lyon Mountain, New York.
- ZODAC, PETER, Box 29, Peekskill, New York.

SUBSCRIBERS

- Aberdeen University, Aberdeen, Scotland.
 Academy of Natural Sciences Library, Logan Circle, Philadelphia, Pennsylvania.
 Academy Nacional de Ciencias Antonio, Alzate, Apartado 77 98, Mexico City, D. F., Mexico.
 Agencia Argos, Dept. H, Apartado 400, Lisbon, Portugal.
 Agricultural and Mechanical College of Texas Library, College Station, Texas.
 Aluminum Company of Canada, Ltd., Arvida, Quebec, Canada.
 Alveranga-Decane, Sr. Leonidas, Universidad of El Salvador, San Salvador, El Salvador, C. A.
 American Colloid Company, 363 West Superior Street, Chicago 10, Illinois.
 American Cyanamid Company, 1937 West Main Street, Stamford, Connecticut.
 American Museum of Natural History Library, New York, New York.
 American Optical Company, Central Library, Southbridge, Massachusetts.
 American Potash and Chemical Corporation, Trona, California.
 Amherst College Library, Amherst, Massachusetts.
 Amtore Trading Corporation, 210 Madison Avenue, New York, New York.
 Andhra University Library, Guntur, India.
 Australian Museum, Sydney, New South Wales, Australia.

 Bailey Brothers and Swinfen, Ltd., Cathedral House, 8-11 Paternoster Row, London, E.C. 4, England.
 Bangor Public Library, Bangor, Maine.
 Basic Magnesium, Inc., Box 7, Luning, Nevada.
 Bausch and Lomb Optical Company, Scientific Library, Rochester, New York.
 Beloit College Library, Beloit, Wisconsin.
 Bonneville Project, Box 3537, Project Library, Portland, Oregon.
 Boston Public Library, Copley Square, Boston, Massachusetts.
 Boston University Library, 688 Boylston Street, Boston, Massachusetts.
 Bridgeport Public Library, 925 Broad Street, Bridgeport, Connecticut.
 Brooklyn Children's Museum Library, Brooklyn, New York.
 Brooklyn Public Library, Science and Industry Division, Brooklyn, New York.
 Brown University Library, Providence, Rhode Island.
 Brush Mineralogical Library, Kirtland Hall, Yale University, New Haven, Connecticut.
 Bryn Mawr College Library, Bryn Mawr, Pennsylvania.
 Buffalo Museum of Science, Research Library, Humbolt Street, Buffalo, New York.

 Caja de Credito Minero, Laboratorio, Casilla 100 D, Santiago, Chile.
 California Institute of Technology, Pasadena, California.
 California State Division of Mines, Ferry Building, San Francisco 11, California.
 California State Library, Library Courts Building, Sacramento, California.
 Canadian Industries, Ltd., Development Laboratory, McMasterville, Quebec, Canada.
 Carleton College Library, Northfield, Minnesota.
 Carnegie Institute of Technology, Science Branch Library, Room 115, Engineering Hall, Pittsburgh, Pennsylvania.
 Carnegie Library of Pittsburgh, Schenley Park, Pittsburgh, Pennsylvania.
 Case School of Applied Science, Department of Geology and Mineralogy, Cleveland, Ohio.
 Central Trust of China, 112 Hongkong and Shanghai Bank Building, Hongkong, China.

- Chicago Natural History Museum, Roosevelt Road and Field Drive, Chicago 5, Illinois.
 Clark University Library, Worcester, Massachusetts.
 Cleveland Public Library, 325 Superior Avenue, N.E., Cleveland, Ohio.
 College of the City of New York, Convent Avenue and 139 Street, New York, New York.
 Colorado College, Coburn Library, Colorado Springs, Colorado.
 Colorado School of Mines Library, Golden, Colorado.
 Colorado Springs Mineralogical Society, 123 North Tejon Street, Colorado Springs, Colorado.
 Columbia University Library, New York, New York.
 Commissioner of Lands and Mines, Georgetown, British Guiana.
 Companhia Siderurgica Nacional, Volta Redonda, Est. do Rio, Brazil.
 Cornell University Library, Ithaca, New York.
 Cranbrook Institute of Science, Bloomfield Hills, Michigan.
 Crane Company, Research Laboratories, 836 South Michigan Avenue, Chicago, Illinois.
- Dartmouth College Library, Hanover, New Hampshire.
 Denver Public Library, Science and Engineering Department, Denver, Colorado.
 Departamento Nacional da Producao Mineral, Avenida Pasteur 404, Rio de Janeiro, Brazil.
 DePauw University Library, Greencastle, Indiana.
 Detroit Public Library, Woodward and Kirby Avenues, Detroit, Michigan.
 Divisao Experimentacao e Resquisa da Secretaria de Agricultura (Antigo Instituto Agronomico do Estado de Sao Paulo) Caixa Postal 28, Campinas, Estado do Sao Paulo, Brazil, South America.
 Diamond Trading Company, Ltd., Andrew's House, 32-34 Holborn Viaduct, London, E.C. 1, England.
 Dow Chemical Company Library, Midland, Michigan.
 Dra. Z. Ch. de Cetrangelo, Crisostomo Alvarez 616, Tucuman, Argentina.
 Duke University Library, Durham, North Carolina.
- Earlham College Library, Richmond, Indiana.
 Ecole Polytechnique, 1430 Rue St. Denis, Montreal, Canada.
 Electro Metallurgical Company (Union Carbide Laboratories), 4625 Royal Avenue, Niagara Falls, New York.
 Engineering Societies Library, 29 West 39 Street, New York, New York.
 Engineers Library, Engineers Experimental Station, College Station, Texas.
 Escola Politecnica da Universidade de Sao Paulo. Rua Quinze de Novembro 144, Sao Paulo, Brazil.
 Escuela de Ingenieros Industriales, Avenida B. O'Higgins 1876, Santiago, Chile.
 Escuela de la Ingenieria de la Universidad de Cuyo, San Juan, Argentina.
 Escuela Nacional de Ingenieros, Casilla 1301, Lima, Peru.
- Faxon, F. W., Company, 83 Francis Street, Back Bay, Boston, Massachusetts (for Alumni Club, Foundation Universitaire, Brussels, Belgium)
 Faxon, F. W., Company, 83 Francis Street, Boston 15, Massachusetts (for University of Brussels, Belgium).
 Foote Mineral Company, 1609 Summer Street, Philadelphia, Pennsylvania.
 Four Continent Book Corporation, 253 Fifth Avenue, New York 16, New York.
 Fresno State Teachers College Library, Fresno, California.

General Electric Company Laboratory Library, Pittsfield, Massachusetts.
General Electric Company Research Laboratory Library, Schenectady, New York.
Geological Society of America, 419 West 117 Street, New York, New York.
Geological Society of London, Burlington House, Piccadilly, London, W. 1, England.
Geological Survey, Box 9, Entebbe, Uganda.
Geological Survey of Canada, Department of Mines and Resources, Victoria Memorial Museum, Ottawa, Canada.
Geological Survey of Great Britain, Exhibition Road, London, S.W. 7, England.
Geological Survey of India, 27 Chowringhee Road, Calcutta, India.
Geological Survey of New Zealand, 156, The Terrace, Wellington, New Zealand.
Geological Survey of South Africa, Department of Mines, Pretoria, South Africa.
Geological Survey of Southern Rhodesia, Salisbury, Southern Rhodesia, Africa.
Geophysical Laboratory, 2801 Upton Street, Washington, D. C.
Georgia Department of Mines, Mining and Geology, 425 State Capitol, Atlanta, Georgia.
Georgia School of Technology Library, Atlanta, Georgia.
Gobierno de Colombia, Departamento Nacional de Provisiones, Bogotá, Colombia.
Government Mineralogist, Torrington Square, Colombo, Ceylon.

Hamilton College Library, Clinton, New York.
Harbison-Walker Refractories Company, Hays Laboratory, Box 443, Homestead, Pennsylvania.
Harrassowitz, Otto, Braus-Riggenbach, Basel, Switzerland.
Harvard University, Department of Mineralogy Library, Cambridge, Massachusetts.
Hebrew University, Department of Geology, Jerusalem, Palestine.
His Majesty's Stationery Office, Princes Street, Westminster, London, S.W. 1, England
I.C.I. Alkali, Ltd., Supply Dept., Northwich, Cheshire, England.
I.C.I. Fertiliser and Synthetic Products Library, Billingham, County, Durham, England.
Idaho University Library, Moscow, Idaho.
Imperial College of Science and Technology, South Kensington, London, S.W. 7, England.
Indiana University Library, Bloomington, Indiana.
Instituto de Geologia, Avenida San Martin, Caracas, Venezuela.
Istituto di Mineralogia della R. Università, Via dell' Università, 5, Modena, Italy.
International Nickel Company of Canada, Ltd., Copper Cliff, Ontario, Canada.
Iowa State College Library, Ames, Iowa.

James E. Morrow Library, Marshall College, Huntington 1, West Virginia.
Johannesburg Public Library, Johannesburg, South Africa.
John Crerar Library, Chicago, Illinois.
Johns Hopkins University Library, Baltimore, Maryland.
Johns Manville Research Laboratories, Manville, New Jersey.
Joliet High School, Science Department, Joliet, Illinois.

Kansas City Public Library, 9th and Locust Street, Kansas City, Missouri.
Kansas State Agricultural College Library, Manhattan, Kansas.
Kennecott Copper Corporation, McGill, Nevada.

Laboratorio Quimico Nacional, Apartado 2577, Bogotá, Colombia.
Lafayette College Library, Easton, Pennsylvania.
Lago Petroleum Corporation, Apartado 172, Maracaibo, Venezuela.

Lehigh University Library, Bethlehem, Pennsylvania.
Library, Elmwood, Hartburn, Stockton-on-Tees, England.
Library of Congress, Washington, D. C.
Linde Air Products Company Library, East Park Drive and Woodward Avenue, Tonawanda, New York.
Livraria Kosmos, Rua Marconi 92-93, Sao Paulo, Brazil.
Los Angeles County Public Library, 322 South Broadway, Los Angeles, California.
Los Angeles Mineralogical Society, c/o Chas. W. Schlagel, Librarian, 58 Hampden Terrace Alhambra, California.
Los Angeles Public Library, Serials Division, 530 South Hope Street, Los Angeles 13, California.
Louisiana State University Library, University, Louisiana.

M. Paul Philips Library, Birmingham-Southern College, Birmingham 4, Alabama.
Maine Mineralogical and Geological Society, 6 Allen Avenue, Portland, Maine.
Massachusetts Institute of Technology Library, Cambridge, Massachusetts.
Massachusetts State College, Goodell Library, Amherst, Massachusetts.
McGill University Library, 3459 McTavish Street, Montreal, Canada.
McMaster University Library, Hamilton, Ontario, Canada.
Mechanics Mercantile Library, 57 Post Street, San Francisco, California.
Mezhdunarodnaja Kniga, Kuznetski Most. 18, Moscow, U.S.S.R.
Michigan College of Mines and Technology Library, Houghton, Michigan.
Michigan State College Library, East Lansing, Michigan.
Milwaukee Public Library, 814 West Wisconsin Avenue, Milwaukee 2, Wisconsin.
Ministere Mines and Pecheries, Chambre E-605, Hotel de Government, Quebec, Canada.
Missouri School of Mines and Metallurgy Library, Rolla, Missouri.
Monsanto Chemical Company, Library Central Research Department, Dayton, 7, Ohio.
Montana School of Mines, Butte, Montana.
Montana State University Library, Missoula, Montana.
Mount Holyoke College Library, South Hadley, Massachusetts.
Museum of Natural History, City Library Association, Springfield, Massachusetts.

National Geological Survey of China, c/o Williston Memorial Library, Mount Holyoke College, South Hadley, Massachusetts.
National Institute of Health, Rockville Pike, Bethesda, Maryland.
Netherland Government, c/o G. E. Stechert, 31 East 10th Street, New York 3, New York.
Netherland Government Commission for Scientific Documentation, Depository Library, c/o Miss E. Van Aalten, 235 East 38th Street, New York 16, New York.
New Jersey Zinc Company Library, Franklin, New Jersey.
New Jersey Zinc Company, 160 Front Street, New York, New York.
New Mexico State School of Mines, Socorro, New Mexico.
New Mexico State Teachers College, Silver City, New Mexico.
New York Mineralogical Club, Inc., American Museum of Natural History, New York, New York.
New York Public Library, 476 Fifth Avenue, New York, New York.
New York State Library, Albany, New York.
New York University Library, University Heights, New York, New York.
New York University, Washington Square Library, 100 Washington Square East, New York, New York.

Newark Mineralogical Society, 468 Orange Street, Newark, New Jersey.
Newark Museum Association, 49 Washington Street, Newark, New Jersey.
Nordemann Publishing Company, Clarendon Building, 215 Fourth Avenue, New York, New York.
North American Philips Company, 145 Palisade Street, Dobbs Ferry, New York.
North Carolina State College of Agriculture and Engineering, State College Station, Raleigh, North Carolina.
North Staffordshire Technical College, Ceramic Society, Stoke-on-Trent, England.
North Texas Agricultural College Library, Arlington, Texas.
Northwestern University Library, Evanston, Illinois.

Oberlin College Library, Oberlin, Ohio.
Occidental College Library, Los Angeles, California.
Ohio State University Library, Columbus, Ohio.
Oklahoma Agricultural and Mechanical College Library, Stillwater, Oklahoma.
Ontario Department of Mines, Parliament Buildings, Toronto, Ontario, Canada.
Oregon State Agricultural College Library, Corvallis, Oregon.
Otago University, Dunedin, New Zealand.
Oxford University, Radcliffe Library, Oxford, England.

Pasadena Junior College, Hill and Colorado Streets, Pasadena, California.
Pennsylvania State College, School of Mineral Industries, State College, Pennsylvania.
Philadelphia Mineralogical Society, Academy of Natural Science, Logan Circle, Philadelphia, Pennsylvania.
Pomona College Library, Claremont, California.
Princeton University Library, Princeton, New Jersey.

Queen's University Library, Kingston, Ontario, Canada.

R. Università, Istituto di Mineralogia, Via dell' Università, 5, Modena, Italy.
Rhode Island State College Library, Green Hall, Kingston, Rhode Island.
Rhodes University College, Grahamstown, South Africa.
Rochester Public Library, 115 South Avenue, Rochester, New York.
Royal Ontario Museum of Mineralogy, 100 Queen's Park, Toronto 5, Canada.
Rumrill, Charles L. and Company, 364 East Avenue, Rochester, New York.
Rutgers University Library, New Brunswick, New Jersey.

St. Louis University Library, St. Louis, Missouri.
San Diego Society of Natural History, Balboa Park, San Diego, California.
San Diego State College Library, San Diego, California.
Santa Ana Public Library, Santa Ana, California.
Santa Barbara State College, 1920 Lausen Road, Santa Barbara, California.
Schortmann's Minerals, 6 McKinley Avenue, Easthampton, Massachusetts.
Science Museum Library, South Kensington, London, S.W. 7, England.
Scripps Institute of Oceanography Library, La Jolla, California.
Senores Banco Minero, Apartado Postal 2565, Lima, Peru.
Silberstein, Milton S., 516 Sul Ross Avenue, Houston, Texas.
Smith College Library, Northampton, Massachusetts.
Sociedad Científica Argentina, Santa Fe 1145, Buenos Aires, Argentina.

- South Dakota State School of Mines Library, Rapid City, South Dakota.
Southern Methodist University, Library, Dallas, Texas.
Southwestern Louisiana Institute, Stephens Memorial Library, Lafayette, Louisiana.
Spencer Lens Company, Buffalo, New York.
Stanford University Library, Stanford University, California.
Standard Oil Company of New Jersey, Geological Department, 26 Broadway, New York, New York.
State University of Iowa Library, Iowa City, Iowa.
Steven, B. F. and Brown, 28-30 Little Russell Street, London, W. C. 1, England.
Syracuse University Library, Syracuse, New York.
- Tennessee Eastman Corporation, Kingsport, Tennessee.
Texas College of Mines and Metallurgy Library, El Paso, Texas.
Texas Technological College Library, Lubbock, Texas.
Thin, James, 54 South Bridge Street, Edinburgh, 1, Scotland.
Thomas and Hochwalt Laboratories, Monsanto Chemical Company, Dayton, Ohio.
Toledo Public Library, Toledo, Ohio.
TRSL, Signal Property Officer, Spring Lake, New Jersey.
Tufts College Library, Tufts College 57, Medford, Massachusetts.
Twining Laboratories, The, P.O. Box 1472, Fresno 16, California.
- Union College Library, Schenectady, New York.
Union Mines Development Corporation, 30 East 42 Street, New York, New York.
United States Bureau of Standards Library, Washington, D. C.
United States Geological Survey Library, Washington 25, D. C.
United States National Museum, Washington, D. C.
Universidad Nacional de Mexico Library, Calle del Lic. Verdad No. 2, Mexico City, D. F., Mexico.
University, Department of Mineralogy and Petrology, Cambridge, England.
University Library, Adelaide, South Australia.
University Library, Cambridge, England.
University Library, Reading, England.
University Library, Stellenbosch, South Africa.
University College, Potchefstroom, Transvaal, South Africa.
University College of Swansea Library, Singleton Park, Swansea, England.
University of Arizona Library, Tucson, Arizona.
University of Arkansas, Fayetteville, Arkansas.
University of British Columbia, Point Grey, British Columbia, Canada.
University of Buffalo Library, 3425 Main Street, Buffalo, New York.
University of Calcutta, Geological Department, Senate House, Calcutta, India.
University of California Library, Berkeley, California.
University of California, Division of Soils, 119 Hilgard Hall, Berkeley, California.
University of California Library, Los Angeles, 405 Hilgard Avenue, Los Angeles 24, California.
University of California Warehouse, 2465 Enterprise Street, Metropolitan Station, Los Angeles 55, California.
University of Cape Town Library, Rondebosch, Cape Town, South Africa.
University of Chattanooga Library, Chattanooga, Tennessee.
University of Chicago Libraries, Chicago, Illinois.

- University of Cincinnati, Director of Central Stores, Cincinnati, Ohio.
University of Cincinnati Library, Burnett Woods Park, Cincinnati, Ohio.
University of Colorado Library, Boulder, Colorado.
University of Connecticut Library, Storrs, Connecticut.
University of Hawaii, Honolulu, Hawaii.
University of Illinois Library Urbana, Illinois.
University of Kansas Library, Lawrence, Kansas.
University of Kentucky Library, Lexington, Kentucky.
University of Liege, Geological Laboratory, Liege, Belgium.
University of Manchester Library, Manchester, England.
University of Manitoba Library, Winnipeg, Manitoba, Canada.
University of Melbourne Library, Carlton N. 3, Victoria, Australia.
University of Michigan Library, Ann Arbor, Michigan.
University of Minnesota Library, Minneapolis, Minnesota.
University of Missouri Library, Columbia, Missouri.
University of Montreal, 2900 Mount Royal Boulevard, Montreal, Canada.
University of Nebraska Library, Lincoln, Nebraska.
University of New Hampshire Library, Durham, New Hampshire.
University of New Mexico Library, Albuquerque, New Mexico.
University of North Carolina Library, Chapel Hill, North Carolina.
University of North Dakota Library, University, North Dakota.
University of Oklahoma Library, Norman, Oklahoma.
University of Oregon Library, Eugene, Oregon.
University of Pennsylvania Library, Philadelphia, Pennsylvania.
University of Pittsburgh Library, 310 State Hall, Pittsburgh, Pennsylvania.
University of Pretoria Library, Pretoria, South Africa.
University of Rochester Library, Rochester, New York.
University of St. Andrews Library, St. Andrews, Scotland.
University of Sheffield, St. George's Square, Sheffield 1, England.
University of South Dakota Library, Vermilion, South Dakota.
University of Southern California Library, University Park, Los Angeles, California.
University of Sydney, Fisher Library, Sydney, New South Wales, Australia.
University of Tennessee, Knoxville, Tennessee.
University of Texas Library, Austin, Texas.
University of Toronto Library, Toronto, Ontario, Canada.
University of Utah Library, Salt Lake City, Utah.
University of Virginia Library, Charlottesville, Virginia.
University of Washington Library, Seattle, Washington.
University of Washington, College of Mines, 324 Mines Laboratory, Seattle, Washington.
University of West Virginia Library, Morgantown, West Virginia.
University of Western Australia Library, Perth, Western Australia.
University of Wisconsin Library, Madison, Wisconsin.
University of Witwatersrand Library, Johannesburg, South Africa.
University of Wyoming Library, Laramie, Wyoming.
- Valentine Garcia y Cia, Apartado 2103, Habana, Cuba.
Vanadium Corporation of America Library, Bridgeville, Pennsylvania.
Vanderbilt University, Joint University Library, Nashville, Tennessee.
- Ward's Natural Science Establishment, 3000 Ridge Road East, Rochester, New York.
Washington State College Library, Pullman, Washington.

Washington University Library, St. Louis, Missouri.

Wayne Laboratories, 17 East Main Street, Waynesboro, Pennsylvania.

Wellesley College Library, Wellesley, Massachusetts.

Wesleyan College Library, 175 North Street, Middletown, Connecticut.

Wichita City Library, Wichita, Kansas.

Young, Henry, and Sons, Ltd., 15 North John Street, Liverpool, England.

NOTES AND NEWS

BASTNAESITE AT CORONA, NEW MEXICO

Information received from R. S. Dean, Assistant Director of the Bureau of Mines, indicates a tentative identification of the mineral bastnaesite, a fluocarbonate of the cerium metals, in the microscopic examination of a sample taken from the Red Cloud fluorite deposit at Corona, New Mexico. The sample was sent to the Rolla, Missouri, laboratory of the Bureau of Mines for ore-dressing tests and the identification was made by Waldemar M. Dressel, Jr., in the course of a routine microscopic examination of the material.

The bastnaesite occurs in small, short prismatic hexagonal crystals with a basal parting. They are yellow to brownish-yellow in color with a waxy to resinous luster. The hardness is 4 and specific gravity 5.018. Optically the material is uniaxial positive with omega slightly below 1.72 and epsilon very close to 1.82.

Qualitative chemical tests showed the presence of the cerium metals. Spectrographic analysis showed strong lines for cerium, praseodymium and lanthanum, with the possibility of neodymium as well.

By microscopic count the composite of the gravity concentrates contained approximately 35% of bastnaesite. On this basis the content of the head sample would be about 2.4%. The tentative identification of this rare mineral will be checked by a quantitative chemical analysis.

The following have been elected officers of the American Society for X-ray and Electron Diffraction: W. H. Zachariasen, department of Physics, University of Chicago, Vice-President for 1944 and President-elect for 1945, and J. D. H. Donnay, Laval University, Quebec, and Hercules Powder Company, Wilmington, Delaware, Secretary-Treasurer for 1944. Dr. L. H. Germer of the Bell Telephone Laboratories at Murray Hill, New Jersey, is president for 1944. The next meeting of the society will be a joint Research Conference with Section C of the American Association for the Advancement of Science next August at Gibson Island, Maryland.

By vote of the Executive Committee of the A.A.A.S., the Association will hold its annual meeting for 1944 in Cleveland, Ohio, during the week of September 11-16.

The Executive Committee passed the following resolution relative to the programs of the meetings:

"It was voted to bring to the attention of the Association and to all of the affiliated societies that in all programs of the September meeting emphasis be placed on the indispensability of science for the future of civilization, both in war and in peace."

The Association extends to all its affiliated and associated societies a cordial invitation to participate in the Cleveland meeting.

Dr. Edward Bennett Mathews, professor emeritus of mineralogy and petrography at Johns Hopkins University, died Feb. 4 at the age of 74 years. Since 1917 he had served as treasurer of the Geological Society of America.