

The State Bureau of Mines has recently issued Bulletin 7, *The Metal Resources of New Mexico and their Economic Features*, by S. G. Lasky and T. P. Wootton. The bulletin contains 178 pages and is illustrated by tables and maps showing the location of the various districts.

The total metal production of New Mexico from the advent of the Spaniards to 1930 is stated by the authors to have a value of 419 million dollars. About 80 per cent of this amount is accounted for by mining operations from 1904 to 1930. Since the beginning of mining the value of the various metals produced has been as follows: Copper \$247,637,000, silver \$51,645,000, gold \$45,997,000, zinc \$44,010,000, lead \$18,140,000, iron ore \$7,919,000, managanese and manganiferous ores \$2,293,000, molybdenum, \$1,789,000, and tungsten ore \$125,000.

In Bulletin 7 all available information of value to those interested in mining in New Mexico has been assembled. All of the known mining districts are described briefly with attention to history, production and geology. The uses of the metals and the marketing of the different ores are described. The section on the economic features of prospecting, mining and milling contains important data on costs of construction and operation and should be of special value to those who are giving thought to acquiring or developing mining properties.

At a meeting of representative retail jewelers held in Chicago a permanent organization known as the Gemological Institute of America was established. One of the main objects of this Society is to furnish adequate scientific instruction to those responsible for the sale of gems and gem materials. A constitution was adopted, plans formulated for the future and officers elected to the various boards and committees. Mr. Robert M. Shipley of Los Angeles, California, was elected president of the Institute.

Dr. Hermann Michel was elected Director of the Natural History Museum at Vienna. He will retain however the supervision of the work in mineralogy and petrography.

Dr. Bruno von Freyberg has accepted the professorship of geology and mineralogy at the University of Erlangen as successor of Dr. Hans Lenk.

Dr. Frank R. Van Horn, Secretary of the Mineralogical Society of America, and Professor of geology and mineralogy at Case School of Applied Science, Cleveland, Ohio, died Aug. 1, 1933, at the age of sixty-one years.

DIRECTORY OF AMERICAN AND CANADIAN
MINERAL COLLECTIONS

SAMUEL G. GORDON, *Academy of Natural Sciences of Philadelphia.*
(Continued from page 366).

MINNESOTA

COLLEGEVILLE ST. JOHN'S UNIVERSITY.

JACKSON JOSEPH N. PROKES.

A general and local collection of 2000 specimens.

LAKE CRYSTAL FRANK O. SWAIN.

MINNEAPOLIS MINNESOTA ACADEMY OF SCIENCE.

Museum in Public Library Building.

UNIVERSITY OF MINNESOTA.

Department of Geology and Mineralogy. A general series, including the first collection of George Frederick Kunz, of 2000 specimens, is in Pillsbury Hall. It may be seen during school hours.

NORTHFIELD CARLETON COLLEGE.

ST. OLAF COLLEGE.

SOUDAN OSCAR J. CORPI, P.O. Box 775.

ST. PAUL HAMLINE UNIVERSITY, Geological Museum.

A small general collection of minerals.

ST. PAUL INSTITUTE OF ARTS AND SCIENCES.

ST. PETER GUSTAVUS ADOLPHUS COLLEGE.

A general collection of 500 minerals may be seen in the Main Hall on application.

WINONA WINONA STATE TEACHERS COLLEGE.

MISSISSIPPI

JACKSON MILLSAPS COLLEGE.

Mr. J. M. Sullivan is custodian of a collection of about 1000 specimens.

STATE COLLEGE STATE COLLEGE (Formerly Mississippi Agricultural and Mechanical College).

A collection of about 1000 specimens may be seen daily from 9 a.m. to 5 p.m. in the Department of Geology.

UNIVERSITY UNIVERSITY OF MISSISSIPPI.

Teaching collections, and the collections of the State Geological Survey are in care of the Department of Geology.

MISSOURI

CANTON CULVER-STOCKTON COLLEGE.

COLUMBIA UNIVERSITY OF MISSOURI, MUSEUM.

FAYETTE CENTRAL COLLEGE.

FULTON WESTMINSTER COLLEGE.

GLASGOW PRITCHETT COLLEGE.

JEFFERSON CITY MISSOURI STATE MUSEUM (Resources Museum Commission).

Alfred C. Burrill, Curator. In 1923 the St. Joseph Lead Co. presented part of the remarkable collection brought together by F. P. Graves while Superintendent of the Doe Run Lead Co. It was originally displayed in the offices of the latter company at Doe Run, previous to its acquisition by the St. Joseph Lead Company. Although the collection is a general one, it contains huge calcite crystals, and other noteworthy Missouri minerals.

KANSAS CITY DANIEL B. DYER MUSEUM, Public Library Building.

ROLLA BUREAU OF GEOLOGY AND MINES.

State Geologist (H. H. Buehler), Custodian. The State collections, numbering 5000 specimens, may be seen daily, except Sunday, from 8 A.M. to 5 P.M., on request.

MISSOURI SCHOOL OF MINES AND METALLURGY,
GEOLOGICAL MUSEUM.

Contains the Col. Kingston collection, rich in pseudomorphs.

SPRINGFIELD DRURY COLLEGE, Edward M. Shepard Museum.

Contains the collection of Sanborn Tenny.

ST. LOUIS EDUCATIONAL MUSEUM OF THE ST. LOUIS PUBLIC SCHOOLS.

FREDERICK H. POUGH, 4 Lenox Place.

A general collection of 1800 specimens.

WASHINGTON UNIVERSITY.

Mr. W. O. Shipton is custodian of a general teaching collection in Wilson Hall, numbering 16,000 specimens. It may be seen at any time.

MONTANA

AGATE COOLS MUSEUM OF NATURAL HISTORY.

BOZEMAN UNIVERSITY OF MONTANA (Montana State College), Department of Chemistry.

A rather small mineral collection.

BUTTE MONTANA SCHOOL OF MINES.

Custodian, Eugene S. Perry. The general collections include over 30,000 minerals, rocks, and fossils. They may be seen weekdays from 8 A.M. to 5.30 P.M., and on Saturdays from 8 A.M. to 12 M.

HELENA MONTANA STATE LIBRARY, MUSEUM.
State Capitol Building.

MISSOULA UNIVERSITY OF MONTANA.

NEBRASKA

CRETE DOANE COLLEGE.

A general collection of minerals. C. O. Carlson, Custodian. May be seen on request.

HASTINGS HASTINGS COLLEGE.

A general collection of 1000 specimens is in custody of W. J. Kent, and may be seen in the main building daily and on Sunday afternoons.

LINCOLN UNIVERSITY OF NEBRASKA: State Museum.

Erwin H. Barbour (Department of Geology), Director. The museum and the mineral collection are both in process of building. While emphasizing Nebraska resources, only a few common minerals are exhibited. The completed portion of the museum is open daily from 8 A.M. to 6 P.M. and on Sundays from 2 P.M. to 6 P.M.

OMAHA CREIGHTON UNIVERSITY, MUSEUM.
FRED EASTMAN, 2628 Dodge Street.

A general collection of 450 specimens.

UNIVERSITY PLACE OMAHA PUBLIC LIBRARY AND MUSEUM.
NEBRASKA WESLEYAN UNIVERSITY.

NEVADA

COALDALE CARL RIECK.

LOVELOCK CAPTAIN A. H. SCOTT.

Collection of ores.

LOWER ROCHESTER PERCY TRAIN.

A large collection of minerals and fossils.

MANHATTAN H. G. CLINTON.

A collection of 5000 specimens, including many local minerals.

RENO MACKAY SCHOOL OF MINES, Mackay Museum.

About 32,700 minerals, ores, rocks, and fossils comprise the collections in custody of Mr. Carl Stoddard. Included is the collection, formerly in the State Capitol at Carson City, and the Cole, Malcolm McDonald, C. W. West, and F. M. Fellows collections. The Museum is open daily except Sunday.

TONOPAH C. C. BOAK.
A general collection of 1400 specimens.

TUSCARORA RAY LA FORCE.
A collection of Rocky Mountain ores.

NEW HAMPSHIRE

DURHAM NEW HAMPSHIRE COLLEGE OF AGRICULTURE AND
MECHANIC ARTS.
(State Geological Survey Collections.)

UNIVERSITY OF NEW HAMPSHIRE, Conant Building.
George W. White, Custodian. A general and local collection of New Hampshire minerals and rocks.

HANOVER DARTMOUTH COLLEGE, BUTTERFIELD MUSEUM.
Frederick Hall Collection.

KEENE WALTER E. HAMMOND, 573 West Street.
KEENE HIGH SCHOOL.
KEENE NATURAL HISTORY SOCIETY.

This society, founded in 1833, has a collection numbering 5000 minerals and 2000 rocks in the Library building, where it may be seen daily, or by appointment with the Custodian, Mr. Hayward. It includes New England and New Jersey minerals.

MANCHESTER GEORGE I. HOPKINS.
MANCHESTER INSTITUTE OF ARTS AND SCIENCES.

George I. Hopkins, Custodian. A general collection of 5000 specimens. Open daily 10 A.M. to 4 P.M. The Institute lost its more extensive mineral collection in a fire in 1902.

WOLFEBORO LIBBY MUSEUM.

NEW JERSEY

ASBURY PARK FRED C. METCALFE, P.O. Box 51.
A small collection.

BLOOMFIELD ROY M. ALLEN, 126 Berkeley Avenue.

CALDWELL ERNEST H. WILSON, 37 Forest Avenue.
A general and local collection of 2000 specimens, particularly of New Jersey zeolites.

- DOVER TOM ALLEN, Hewey Avenue.
C. M. BERRY, 21 East McFarland Street.
HIGH SCHOOL.
- ELIZABETH P. WALTHER, 508 Muriel Parkway.
A general and local collection of 3000 specimens.
- FRANKLIN WILLIAM BALL.
Local collection.
- L. H. BAUER.
Fine local collection.
- SIDNEY HALL.
Local collection.
- W. J. GARRITY.
Local collections.
- JAMES MCGOVERN COLLECTION.
Owned by Quinn. Local collection.
- NEW JERSEY ZINC COMPANY.
A local collection is in the office.
- CAPTAIN ROWE.
A large local collection.
- HOBOKEN STEVENS INSTITUTE OF TECHNOLOGY, Museum.
- HOPEWELL J. P. LABAW.
A general collection.
- JERSEY CITY JERSEY CITY PUBLIC LIBRARY, Museum.
O. IVAN LEE, 2684 Boulevard.
- MENLO PARK COLLECTION OF THOMAS ALVA EDISON.
- NEWARK WILLIAM H. BROADWELL, 571 Hawthorne Avenue.
Collection includes New Jersey minerals, particularly from Franklin, minerals of the rarer elements, and box mounts for the microscope.
- NEWARK MUSEUM ASSOCIATION, 49 Washington Street.
Beatrice Winsor, Director. The collection of 5200 specimens of the late William S. Disbrow, particularly rich in New Jersey zeolites, and the private collection of about 5000 gems and gem materials of Mr. Otto Goetzke are exhibited in the Museum.

NEW BRUNSWICK JOHN A. MANLEY, 132 Hamilton Street.
A general and local collection of 2500 specimens.

RUTGERS COLLEGE, Geological Museum.

Contains the collections of George H. Cook, Lewis C. Beck, (kept intact),
and of Albert H. Chester. Rich in New York and New Jersey minerals.

NUTLEY WILLIAM T. BATHER, 180 Prospect Street.

ORANGE LOUIS REAMER, 484 Lincoln Avenue.

A general and local collection, including a series of box mounts for the micro-
scope.

PATERSON PATERSON MUSEUM, 268 Summer Street.

James F. Morton, Curator. A general and local collection, particularly of
Paterson and Franklin minerals is on exhibition. The collection contains about
580 species.

PRINCETON UNIVERSITY, Guyot Hall.

Contains the collections of Samuel Fowler (in part) and of Archibald Mac-
Martin.

RUTHERFORD WILLIAM J. IHNEN, 133 Mortimer Avenue.

TABOR ALVIN HILL, Box 4 (12 Trinity Circle).

A general and local (Franklin) collection of 1500 specimens.

TRENTON MRS. WEBSTER EDGERLY: 349 W. State Street.

R. B. GAGE, Box 106.

A collection of 1500 specimens, principally from Franklin, N. J.

STATE MUSEUM OF NEW JERSEY, State House Annex.

The Museum, which is associated with the State Geological Survey, has a small
mineral collection. It may be seen from 9 A.M. to 5 P.M. daily, and on Sunday
afternoons.

VERONA R. SCHMID.

WEST CALDWELL JULIA POTWIN MEMORIAL LIBRARY.

A small collection of minerals.

NEW MEXICO

ALBUQUERQUE UNIVERSITY OF NEW MEXICO, Museum.

MESILLA PARK NEW MEXICO COLLEGE OF AGRICULTURE AND
MECHANIC ARTS

SANTE FE NEW MEXICO HISTORICAL SOCIETY.

SOCORRO NEW MEXICO SCHOOL OF MINES, Department of Geology.

A small collection of 1200 minerals may be seen in Brown Hall on request to the custodian, Prof. S. B. Talmadge.

NEW YORK

ALBANY NEW YORK STATE MUSEUM, (State Education Building).

C. C. Adams, Director. About 15,000 specimens comprise the general and New York State collections, which include the cabinets of Ebenezer Emmons, Silas C. Young, the fourth collection of George Frederick Kunz, and some minerals from the collection of Lewis C. Beck. The Museum is open daily from 9 A.M. to 5 P.M., and on Sundays from 2 to 5 P.M. from October 1st to May 1st.

ALFRED ALFRED UNIVERSITY.

ANNADALE, Staten Island. THOMAS I. MILLER.

A general collection of 700 specimens, including a series of box mounts of minerals for the microscope.

AURORA WELLS COLLEGE.

BINGHAMTON BINGHAMTON ACADEMY OF SCIENCE.

BROOKLYN GEORGE E. ASHBY, 265 Washington Avenue.

A general collection of 3500 specimens, including a series of New York City minerals, and a collection of pseudomorphs. Specializes in hydrocarbons.

BEULAH AND MAURICE BLUMENTHAL, 558 Irving Street.

A large collection, principally of carved semi-precious stones.

BROOKLYN MUSEUM, Eastern Parkway. CHILDRENS MUSEUM, Brooklyn Avenue.

The Brooklyn Museum contains the Daniel S. Martin Collection, in part.

JOHN A. GRENZIG, 299 Adams Street.

A general and local collection.

ERWIN F. GROSS, 1169 E. 37th Street.

A small collection.

CHARLES W. HOADLEY, 145 Willow Street.

A collection of 5000 specimens.

LONG ISLAND HISTORICAL SOCIETY

POLYTECHNIC INSTITUTE OF BROOKLYN.

Said to have the John Milton Smith collection.

BUFFALO BUFFALO MUSEUM OF SCIENCE, Humboldt Park.

The mineral collection, including the Wadsworth cabinet, numbers 40,000 specimens.

CANISIUS COLLEGE.

STATE NORMAL SCHOOL.

UNIVERSITY OF BUFFALO.

CANTON ST. LAWRENCE UNIVERSITY.

GENESEE GENESEE VALLEY MUSEUM.

CLINTON HAMILTON COLLEGE.

Over 20,000 minerals, ores, rocks, and fossils are in the collections in the Biology-Geology building, which include the cabinets of Oren Root and John D. Conley. Nelson C. Dale is Custodian. The collection may be seen daily.

CORTLAND FREE LIBRARY.

About 200 minerals are in the museum and part of basement, and may be seen during library hours: 9 A.M. to 9 P.M.

GENEVA HOBART COLLEGE.

GREYSTONE WILLIAM BOYCE THOMPSON COLLECTION.

Dr. Fred J. Pope (New Rochelle), Curator. A large collection of showy minerals and carved jades, extraordinarily well displayed.

HAMILTON COLGATE UNIVERSITY, Geological Museum.

Exhibits include the collections of J. H. Ten-Eych Burr (rarer pegmatite minerals), John H. H. Vosburgh (Little Falls, and Middleville quartz crystals), and the Edward Lathrop Memorial Collection of William Urban—a general collection of 1200 specimens (including some cut stones), and particularly rich in zeolites.

ITHACA CORNELL UNIVERSITY.

Reported to have the collection of Benjamin Sillman, Jr.

JAMAICA ERNEST A. MAYNARD, 161-86th Avenue.

A general collection of 1200 showy minerals.

MENANDS HARRY S. PECK.

NEW ROCHELLE GLEN ISLAND MUSEUM OF NATURAL HISTORY.

NEW YORK (See also under Brooklyn and Staten Island).
ACADEMY OF MT. ST. VINCENT.

Said to have the collections of E. S. F. Arnold, and Benjamin F. Joslin.

FREDERICK I. ALLEN, 55 East 65th Street.

AMERICAN MUSEUM OF NATURAL HISTORY.

H. P. Whitlock, Curator of Mineralogy. Contains the famous collection of Clarence Bement, who had acquired the collection of Norman Spang. Incorporated in these collections are the cabinets of Joseph F. Talson, and S. C. H. Bailey (his meteorite collection is exhibited in another hall of the museum). The Benjamin B. Chamberlain Collection of Manhattan minerals, and other local minerals brought together by the New York Mineralogical Club are appended to the general collection. Prominence is given to the J. P. Morgan Gem Collection, one of the outstanding gem collections in America, formed from the Tiffany gem exhibits at the Paris expositions of 1889 and 1900. The William Boyce Thompson Collection is destined for the American Museum of Natural History. The late Dr. Drummond bequeathed his collection of old carved jades to the Museum.

COLLEGE OF THE CITY OF NEW YORK, Convent Avenue and 139th Street.

The collection of 5000 specimens includes a fine series of New York rocks and minerals. It may be seen in the main building daily except Sunday.

COLUMBIA UNIVERSITY, School of Mines: Schermerhorn Hall (Egleston Mineralogical Museum).

The rather extensive collection of Thomas Egleston is on exhibition. Incorporated with it is the Henry Howe collection of Nova Scotia Zeolites.

MORRIS COOPER, 1155 Park Avenue.

COOPER UNION.

DR. I. W. DRUMMOND, 436 West 22nd Street.

FORDHAM UNIVERSITY.

ALBERT F. KARLSSON, 265 East 201st Street.

MANHATTAN COLLEGE.

METROPOLITAN MUSEUM OF ART.

Contains the famous Bishop Collection of Carved Jades.

MONTGOMERY ARTHUR, 111 East 56th Street.

NEW YORK UNIVERSITY.

Contains the Joseph Delafield Collection.

ROBERT R. OPPENHEIMER, 155 Riverside Drive.

JOHN W. RADU, Stuyvesant High School, 345 East 15th Street.

SOCIETY OF ETHICAL CULTURE.

Said to have the Lewis Feuchtwanger Collection.

VAR-LAC-OID CHEMICAL COMPANY, 15 Moore Street.

A few mineral specimens.

NIAGARA FALLS NIAGARA UNIVERSITY.

PELHAM MANOR ERNEST WEIDHAAS, 63 Iden Street.

PEEKSKILL PETER ZODAC, 157 Wells Street.

POUGHKEEPSIE VASSAR COLLEGE.

A general collection of 2000 specimens may be seen from 8 to 5 daily during the college year in the New England Building.

ROCHESTER

GEORGE L. ENGLISH, 50 Brighton Street.

A collection of box mounts of minerals for the microscope.

ROCHESTER MUSEUM OF ARTS AND SCIENCES.

A general and local collection of 2000 specimens. Arthur C. Parker, Custodian. Open from 9 A.M. to 5 P.M., except Sundays.

A. L. STEVENS, 691 Culver Road.

A general collection of 2200 specimens.

UNIVERSITY OF ROCHESTER, Museum of Natural History.

A general collection of 15,000 specimens may be seen on request, in Dewey Building. E. J. Foyles is Custodian.

SCHENECTADY UNION COLLEGE.

The collections, which number 10,000 specimens, include the cabinet of Charles M. Wheatley—rich in Phoenixville, Pa., and Bristol, Conn., minerals, and the Thomas B. Brooks collection, in part. They may be seen in the Geology building upon application to Prof. E. S. C. Smith.

- SCHOHARIE** **SCHOHARIE COUNTY HISTORICAL SOCIETY.**
 R. VEENFLIET.
 A large collection, principally of fossils.
- SHRUB OAK** **JAMES H. C. MARTENS.**
 Collection is in charge of Mrs. Genevieve Martens.
- SILVER BAY** **SILAS H. PAINE PRIVATE MUSEUM.**
- SKANEATELES** **LIBRARY ASSOCIATION.**
- ST. GEORGE** **STATEN ISLAND INSTITUTE OF ARTS AND SCIENCES.**
 Wall Street and Stuyvesant Place.
 General and local (Staten Island) collections, including the cabinets of F. Hollick and Sanderson Smith. Museum is open 10 to 5 week days, 2 to 5 Sundays.
- SYRACUSE** **SYRACUSE UNIVERSITY.**
 The Museum of Natural History contains the Charles H. Richardson Collection, the W. A. Brownell Collection, and the D. B. Cooper collection—largely from Yellowstone Park.
- TROY** **RENSSELAER POLYTECHNIC INSTITUTE.**
 About 6500 minerals are in the collection in the Pittsburgh Building. Dr. Joseph L. Rosenholtz is Custodian. The collection may be seen on Tuesdays and Thursdays from 4 to 5 P.M.
- UTICA** **GEORGE W. CORAM, 912 John Street.**
 A general collection.
 EDMUND EVERETT HOBBS, Sr., 513 Nichols Street.
 A small mineral collection.
- WEST POINT** **U. S. MILITARY ACADEMY.**
- YONKERS** **YONKERS MUSEUM OF SCIENCE AND ARTS, Trevor Park.**
 About 1500 specimens are exhibited in 6 cases. Open daily, from 9 A.M. to 12 M., and 2 P.M. to 5 P.M., and on Sundays and Holidays from 2 P.M. to 5 P.M. The collection is destined for the American Museum of Natural History.

(To be continued)