

**THE NATURALISTS' UNIVERSAL
DIRECTORY: CONTAINING NAMES,
ADDRESSES, SPECIAL DEPARTMENTS OF
STUDY, ETS., OF PROFESSIONAL AND
AMATEUR NATURALISTS, CHEMISTS,
PHYSICISTS, ASTRONOMERS, ETS., ETS.**

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The Naturalists' Universal Directory: Containing Names, Addresses, Special Departments of Study, Ets., of Professional and Amateur Naturalists, Chemists, Physicists, Astronomers, Ets., Ets. by Samuel E. Cassino

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SAMUEL E. CASSINO

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NOTICE.

The next edition of the Directory will be an International, and it will be issued late in 1899. It is under advisement to make some radical changes in this edition. The work was originally intended for the use of Naturalists, those who had use for and wished to make exchanges. Chemists were first added and from time to time other branches. It is now proposed to exclude Mathematicians, Physicists, Astronomers, Electricians, Photographers, etc. and possibly to make a separate edition devoted to such departments of science as are not included in the Naturalists' Directory.

Opinions as to the advisability of the change are invited by the editor.

Information in regard to deaths or change of address of names in the present edition will be thankfully received by the editor.

The Naturalists' ^{Universal} Directory

CONTAINING THE NAMES, ADDRESSES, SPECIAL DEPARTMENTS OF STUDY, ETC., OF PROFESSIONAL AND AMATEUR NATURALISTS, CHEMISTS, PHYSICISTS, ASTRONOMERS, ETC., ETC.

OF THE UNITED STATES
AND CANADA. COMPILED
BY SAMUEL E. CASSINO,
1898.

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ABBREVIATIONS.

Acad., Academy.	Dir., Director.
Agric., Agriculture.	Dist., Distribution.
Ala., Alabama.	E. E., Electrical Engineer.
Am., American.	Econ., Economic.
Anat., Anatomy.	Elect., Electricity.
Analyt., Analytical.	Emb., Embryology.
Anth., Anthropology.	Ent., Entomology.
Antiq., Antiquities.	Esp., Especially.
Arach., Arachnida.	Eth., Ethnology.
Arch., Archaeology.	Ethnog., Ethnography.
Ariz., Arizona.	Ex., Exchange.
Ark., Arkansas.	Fla., Florida.
Ast., Astronomy.	Ga., Georgia.
Asst., Assistant.	Gen., General.
B. C., British Columbia.	Geog., Geographical.
Biol., Biology.	Geol., Geology.
Bot., Botany.	Held., Helderberg.
Bryol., Bryology.	Hemipt., Hemiptera.
C., Collection.	Herpetol., Herpetology.
Calif., California.	Histol., Histology.
Carab., Carabidæ.	Hist., History.
Carb., Carboniferous.	Hort., Horticulture.
Ceram., Cerambycidæ.	Hymenopt., Hymenoptera.
Chem., Chemistry.	Ia., Iowa.
Cicind., Cicindelidæ.	Ichth., Ichthyology.
Cin., Cincinnati.	Ill., Illinois.
Colo., Colorado.	Ind., Indiana.
Coleopt., Coleoptera.	Invert., Invertebrates.
Coll., College.	Inorg., Inorganic.
Comp., Comparative.	Inst., Institute.
Con., Conchology.	Kan., Kansas.
Conn., or Ct., Connecticut.	Ky., Kentucky.
Crypt., Cryptogamia.	L., Lower.
Crystall., Crystallography.	La., Louisiana.
Cur., Curator.	L. & F.W., Land and Fresh Water.
Cust., Custodian.	Leptid., Lepidoptera.
D. C., District of Columbia.	Lithol., Lithology.
Del., Delaware.	M., Marine.
Dept., Department.	Mam., Mammalogy.
Devon., Devonian.	Man., Manitoba.
Dipt., Diptera.	Mass., Massachusetts.

- Math., Mathematics.
 Md., Maryland.
 Me., Maine.
 M. E., Mining Engineer.
 Med., Medical.
 Meteo., Meteorology.
 Metall., Metallurgy.
 Mic., Microscopy.
 Mich., Michigan.
 Min., Mineralogy.
 Minn., Minnesota.
 Miss., Mississippi.
 Mo., Missouri.
 Moll., Mollusca.
 Mont., Montana.
 Mus., Museum.
 Nat. Hist., Natural History.
 N. B., New Brunswick.
 N. C., North Carolina.
 N. D., North Dakota.
 Neb., Nebraska.
 Neuropt., Neuroptera.
 Nev., Nevada.
 N. H., New Hampshire.
 Niag., Niagara.
 N. J., New Jersey.
 N. M., New Mexico.
 N. Y., New York.
 O., Ohio.
 Obs., Observatory.
 Ont., Ontario.
 Ool., Oology.
 Ophthal., Ophthalmology.
 Ora., Oregon.
 Org., Organic.
 Orn., Ornithology.
 Orthopt., Orthoptera.
 Osteol., Osteology.
 Palmo., Palaeontology.
 Pathol., Pathological.
 Penn., Pennsylvania.
 Phæn., Phænogama.
 Philol., Philology.
 Phil., Philosophy.
 Photog., Photography.
 Phys., Physics.
 Piscol., Piscology.
 P. Q., Province Quebec.
 Pres., President.
 Prof., Professor.
 R. I., Rhode Island.
 S. C., South Carolina.
 S. D., South Dakota.
 Sec., Secretary.
 Sol., Science.
 Sil., Silurian.
 So., Southern.
 Soc., Society.
 Spec., Species.
 Spec., Specimens or specialty.
 Strat., Stratigraphical.
 Surv., Survey.
 Syst., Systematic.
 Tax., Taxidermy.
 Tech., Technical, Technology.
 Tenn., Tennessee.
 Tex., Texas.
 U., Upper.
 Univ., University.
 Va., Virginia.
 Vasc., Vascular.
 Veg., Vegetable.
 Vert., Vertebrates.
 Vt., Vermont.
 Wis., Wisconsin.
 W. T., Wyoming Territory.
 W. Va., West Virginia.
 Wash., Washington.
 Zool., Zoology.

THE
NATURALISTS' DIRECTORY.
UNITED STATES AND CANADA.

An asterisk (*) indicates that parties have been heard from since issue of last Directory. Names followed by a question mark (?) have not been heard from for three years and will be dropped from next edition.

- 1 Aaron, W., Peru, Ill. *Palaeo., Geol., Arch., Lepid., Moll.* C.?
- 2 Abbe, Chas. H., San Juan, Calif. *Orn., Ool., Tax.* C. Ex.
- 3 Abbe, Cleveland, LL. D., Prof. Weather Bureau, Dept. of Agric., Washington, D. C. Editor Monthly Weather Review. *Meteo., Terrestrial Phys., Ast., Atmospheric Elect., Standard Time, Aeronautics; Solar Phys., Sky Colors, Math., Phys., Bibliog. of Meteo.**
- 4 Abbe, Cleveland, Jr., A. M., Johns Hopkins Univ., Baltimore, Md. *Physiog., Geol., Climatol.**
- 5 Abbe, Frank B., San Juan, San Benito Co., Calif. *Min., Ool., Geol., Con., Crystal.* C. Ex.*
- 6 Abbot, Frank, M. D., Dean and Prof. Dental Histol., Surgery and Therapeutics, N. Y. Coll. of Dentistry, 22 West 40th St., New York, N. Y. *Mic., Morphol., Emb., Histol.* C.*
- 7 Abbott, C. C., M. D., Trenton, N. J., or Peabody Mus., Cambridge, Mass. *Local Arch., Local Zool.*
- 8 Abbott, E. K., M. D., Salinas, Monterey Co., Calif. *Bot.**
- 9 Abbott, J. F., Stanford Univ., Calif. *Emb., Nemertini.**
- 10 Achert, E. E., Denver, Colo. *Min.**
- 11 Acheson, Geo., M. A., M. B., M. C. P. S. O., Queens Sq., Galt, Ont., Canada. *Chem., Gen. Biol., Pathol.**
- 12 Acker, Henry P., 166 Benjamin St., Akron, Ohio. *Moll.* C. Ex.*
- 13 Adams, Carl D., B. Sc., Osawkie, Jefferow Co., Kans. *Hort., Ent.* C. Ex.
- 14 Adams, Charles C., 806 E. Empire St., Bloomington, Ill. *Odonata, Neuropt., Geog. Dist. Animals, Con.* C. Ex.
- 15 Adams, Miss E. Isadore, Park st., Roxbury, Mass. *Bot.*
- 16 Adams, Edw. P., C. E., 1039 Exchange Bldg., Boston, Mass. *Geol., Bot.**
- 17 Adams, Frank Dawson, McGill Univ., Montreal, Can. *Geol., Lith.**
- 18 Adams, Dr. Fred, B.S., Thor, Iowa. *Mound and Indian Relics, Geol. Fresh Water Shells to exchange for old coins and fractional currency.* C.*

- 19 Adams, J. M., Ph. D., Watertown, N. Y. *Chem., Pathol., Tumors, Urinalysis, Mic., Algae, Desmids, Diatoms, Ent., Infusoria, Bacteria.**
- 20 Adams, Sherman W., Hartford, Conn. *Bot., Min., Zool.**
- 21 Adams, Tolman, Concord, Mass. *Arch., Ent., Gen. Nat. Hist. C.**
- 22 Adams, W. H., Chase, Peoria Co., Ill. *Arch., Palaeo. C. Ex.* Offers fossil fruits and other fossils of the Coal Measures in exchange for Foreign Coins, Gems and precious stones. Send for check list.*
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- 24 Adams, Wm. W., Dealer in Indian Relics, Union Springs, Cayuga Co., N. Y. *Zool., Arch., Osteol. C. Ex.* Collections for Sci. Societies and Schools a specialty.*
- 25 Adler, Dr. Cyrus, Librarian Smithsonian Institution, Washington, D. C.*
- 26 Adriaens, John S., A. M., F. C. S., 321 Lexington Avenue, New York, N. Y. *Chem.**
- 27 Agard, Miss Sarah J., Teacher Latin and Sci., St. Catherine's School, 137 Western Ave., St. Paul, Minn. *Bot., Phæn. Plants. C. Ex.**
- 28 Agassiz, Alexander, Museum of Comp. Zool. at Harvard College, Cambridge, Mass. *Zool., Geog. Dist., Emb., Thalassography.**
- 29 Ager, Miss J. E. W., Lyonsdale, N. Y. *Bot., Chem. C.*
- 30 Aich, H., 98 Spring St., New York, N. Y. *Lepid. C.?*
- 31 Aiken, Charles E., Colorado Springs, Colo. *Orn., Ool., Mam., Min. C.**
- 32 Aiken, Walter H., College Hill, Ohio. *Bot. C. Ex.**
- 33 Ainslie, Charles N., A.M., Rochester, Minn. *Mic., Ent.* Correspondence invited. *C. Ex.**
- 34 Aitchison, Clyde B., B. Sc., 115 Pearl St., Council Bluffs, Ia. *Chem., Mic., Gen. Biol.**
- 35 Aitken, R. G. Lick Obs., Mt. Hamilton, Calif. *Ast.**
- 36 Aiton, George B., A. M., State Inspector High Schools. 1601 University Ave., Minneapolis, Minn. *Bot., Phæn. Plants. C. Ex.* for good specimens only.*
- 37 Akeley, Lewis E., Vermillion, South Dak. *Inorg. Chem.**
- 38 Akhurst, John, 78 Ashland Place, Brooklyn, N. Y. *Ent.: Lepid., Coleopt., Tax. C. Ex.* Dealer in Entomological Supplies.*
- 39 Albers, A., 1331 Linn St., Cincinnati, Ohio. Designer and engraver of Scientific Illustrations. *Geol., Palaeo., Strat. Geol. C. Ex.**
- 40 Albrecht, Dr. Jos., 219 Elysianfield St., New Orleans, La. *Bot., Min., Phys., Elect., Ent.*
- 41 Albright, Max., Soldiers' Home, Los Angeles Co., Calif. *Lepid., Coleopt. C.* Will collect for parties at reasonable prices.*