

## REDISCOVERY OF THE ELEMENTS — MUSEUMS OF INTEREST

Most of these museums are included in the other two tables, but are grouped here for convenience of reference. They are organized by country. Under each country, the museums are ranked roughly in descending order of merit and usefulness to understanding of the history of elemental discoveries — but it must be understood that this ranking is done subjectively by the authors and that all museums are considered to be of high interest and usefulness.

Museum	Description [element]	Location	Lats/ longs
AUSTRIA			
Welsbach Museum	Elaborate and impressive exhibits concerning of Welsbach history and rare earth chemistry; invention of rare earth elements and strikers (cigarette lighters). [Pr, Nd, Lu]	Burgstraße 8, Althofen, Kärnten, Austria	N46-52.52 E14-28.43
Stadtmuseum	History of Paracelsus as a youth; history of lead mining in area. [Pb]	Widmannngasse 38, Villach, Austria	N46-36.78 E13-50.67
BRAZIL			
Museu do Ouro	Original royal foundry, site of palladium-containing gold. [Pd]	Rua de Intendência, Sabará, Minas Gerais, Brazil	S19-53.32 W43-48.42
CANADA			

Rutherford Museum	Elaborate and complete displays on Rutherford's equipment and discoveries at McGill University. [Rn]	Ernest Rutherford Bldg. (physics), 3600 rue University, McGill U, Montréal, Canada	N45-30.41 W73-34.72
CZECH REPUBLIC			
Jáchymov Museum and City Hall	Exhibits on history of St. Joachimsthal (Jáchymov). [Ra, Po]	Old mint./museum (Mincovna/Muzeum), corner of Mincovni and Berzrucûv vrch; and City Hall (Rathaus), Central Information (Informační Centrum), náměstie Republiky 1,, St. Joachimsthal (now Jáchymov), Czech Republic (Bohemia) [both next door to each other]	Old Mint: N50-22.29 E12-54.78  Rathaus: N50-22.29 E12-54.82
DENMARK			
Geological Museum	Original specimens of cryolite and hafnium-bearing minerals. [Al, Hf]	Oster Voldgade 5-7, Copenhagen, Denmark	N55-41.24 E12-34.64
Bymuseum	History of Copenhagen; sample of hafnium. [Hf]	(City Museum), Vesterbrogade 59, Copenhagen, Denmark	N55-40.33 E12-33.20
ENGLAND			
Royal Institution	Rich exhibits on Davy, Faraday, Crookes, Cavendish, and others. [H, Na, K, Sr, Ca, Ba, Li, B]	21 Albemarle Street, London, England	N51-30.58 W00-08.58

Science Museum	Formerly held rich displays on history of famous British scientists, notably Ramsay and Crookes; most of the holdings are now in storage as the museum has disappointingly converted to trendy exhibits. [Th, inert gases]	Exhibition Road, South Kensington, London, England	N51-29.86 W00-10.44
Museum of Science and Industry	Nice displays on Dalton; chemicals and apparatus of Dalton and Roscoe are in storage. [V] Plans are to import displays of Rutherford from storage at the University of Manchester (as of 2010).	Liverpool Rd. (and Lower Byrom St.), Manchester, England	N53-28.63 W02-15.25
Bowood House	Room devoted to Priestley and his discovery of oxygen (actual discovery site) [O]	Calne, England	N51-25.70 W02-02.25
Ashmolean Science Museum	Exhibit on Moseley. [atomic numbers]	Broad St., Oxford, England	N51-45.26 W01-15.33
Museum of Natural History	Exhibits of columbite from Connecticut; (original specimen of Hatchett's columbite in storage). [Nb]	Cromwell Rd., London, England	N51-29.74 W00-10.54
Bourne Hall	Small rural museum on history of Epsom. [Mg]	Spring St., Ewell, England	N51-21.01 W00-15.12
FRANCE			

Musée des arts et métiers	Extensive exhibit on Lavoisier with impressive replicas of his sophisticated instrumentation and laboratory equipment. [general]	60, rue Réaumur (corner of Réaumur and Vaucanson); Paris, France	N48-51.94 E02-21.34
Musée Moissan	Moissan's apparatus, laboratories and life. [F]	Faculté de pharmacie; 4, Avenue de l'Observatoire; Paris; France	N48-50.58 E02-20.18
Musée Curie	Exhibits on Curie history including instrumentation used in their discoveries; former laboratory of Marie Curie. [Ra, Po]	Curie Institute; 11, rue Pierre et Marie Curie, Paris, France	N48-50.66 E02-20.67
Library collection at École Normale Supérieure Physique	Impressive display of aluminum samples of Deville; thallium samples of Lamy; paintings and other memorabilia of the Sorbonne and Urbain [Al, Th, Lu]	24, rue Lhomond; Paris, France	N48-50.57 E02-20.82
Musée de pharmacie	Pharmaceutical museum including exhibit on Balard. [Br]	École de pharmacie, 15 avenue Charles Flahault, Montpellier, France	N43-37.39 E03-51.74
Musée de Minéralogie	Exhibits on Haüy and Vauquelin, history of the École des mines, and mineralogical specimens. [Cr, Be]	École des mines, 60 Boulevard Saint-Michel, Paris, France	N48-50.73 E02-20.39
GERMANY			
Deutsches Museum	Broad and impressive variety of exhibits, busts of famous scientists, historical laboratory replicas of alchemists, Lavoisier, and Liebig; chemical historical specimens; the Chemistry Hall is spectacular.	Museuminsel, München, Bayern, Germany	N48-07.82 E11-34.97

Museum für Naturkunde	Very impressive mineralogical exhibits, including original vanadinite from Mexico (brought to Europe by Humboldt), and original specimens of Klaproth and Rose; full description of Klaproth's contribution. [Zr, U, Ti, Te, Sr, Cr, Be, Ce, Nb, V]	Invalidenstraße 43, Berlin, Germany	N52-31.79 E13-22.78
Hörsaal Zentrum Chemie	Large hallway complete with exhibits of mainly spectroscopic contributions of Bunsen and Kirchhoff, original spectroscopic equipment and chemical preparations [Rb, Cs]	University of Heidelberg, Tomstrasse, Im Neuenheimer Feld 252	N49-25.11 E08-40.38
Schloss Museum	Large room totally devoted to extensive exhibit on the life of Agricola. [Bi, Sb]	“Georgius-Agricola-Memorial,” Schloss Hinterglauchau, Schloßplatz, Glauchau, Sachsen, Germany	N50-48.99 E12-32.38
Werner Museum	Extensive exhibit on mineralogy and some displays of the work of historic researchers at Freiberg including Winkler and Reich/Richter. [Ge, In]	Brennhausgasse 14, Technische Universität Bergakademie, Freiberg, Sachsen, Germany	N50-55.25 E13-20.60
Winkler Museum	Winkler's original laboratory converted into a interesting museum describing his scientific contributions. [Ge]	Brennhausgasse 14, Freiberg, Sachsen, Germany	N50-55.23 E13-20.54
Märkisches Museum	Historic Berlin, including a large (room-size) wooden scale-model of Berlin dating from 1750 (age of Klaproth and Marggraf).	Am Kallnischen Park 5, Berlin, Germany	N52-30.84 E13-24.88

Gradierbau.	Exhibit on history of mineral baths at Bad Dürkheim (furnished waters which Bunsen and Kirchhoff investigated). [Rb, Cs]	Kurpark, Bad Dürkheim, Germany	N49-27.87 E08-10.49
Freiberg Museum	History of Freiberg Mining Institute.	Nonnengasse 22, Freiberg, Sachsen, Germany	N50-55.10 E13-20.44
Chemistry museum	Rich university museum holding exhibits on Stromeyer and Wöhler [Al, Cd, Si]	George-August-Universität, Inorganic Chemistry, 4 Tammannstraße, Göttingen, Niedersachsen, Germany	N51-33.49 E09-56.90
Johanngeorgenstadt Museum	Displays on mining and Klaproth and tours to (closed) Wagsfort Mine. [U]	Am Pferdegöpel 1, Johanngeorgenstadt, Germany	N50-25.84 E12-42.58
Deutsches Apotheken Museum	Alchemical laboratories and chemicals.	Heidelberger Schloss, Schlossberg, Heidelberg, Germany	N49-24.56 E08-42.81
Museum Rammelsberg	Zinc mining, including cadmium which was discovered zinc compounds. [Zn, Cd]	Erzbergwerk Rammelsberg, Rammelsberger Straße, Goslar, Germany	N51-53.39 E10-25.09
Scheele Haus	Small exhibit in birthplace of Scheele, showing his experiments on gases. [O, N]	Fährstrasse 23, Stralsund, Germany	N54-18.99 E13-05.56
Alte Schicklersche Gebäude	Exhibit showing history of Forestry School where Lothar Meyer taught and developed his first published periodic table (nothing of chemistry and specifically of Meyer is exhibited)	Schicklerstraß 3, Eberswalde, Germany	N52-49.95 E13-49.07
HUNGARY			

Magyar Nemzeti Múzeum (Hungarian National Museum)	Exquisitely details the history of Hungary, exhibits on mines and metallurgy. [Au, Te]	Múzeum körút 14-16, Budapest, Hungary	N47-29.47 E19-03.71
Nagybörzsöny Museum	Mining manager's old home; limited but interesting historic mining exhibits. [Te]	Bányagazda Ház Tájház, Center of town, Nagybörzsöny (DeutschPilsen), Hungary	N47-56.14 E18-49.56
ITALY			
Museum Bombicci	Original "fosforo di Bologna" (barite) specimens. [Ba]	Museo Archeologico Nazionale, Piazza Museo Nazionale, Bologna, Italy	N44-29.89 E11-21.35
NORWAY			
Norsk Berverksmuseum	History of silver mining, next to school of Esmarck. [Ag, Th]	Hyttegt. 3 Kongsberg, Norway;	N59-39.97 E09-38.97
POLAND			
Skłodowska Museum	<u>The</u> museum of Marie Skłodowska Curie; history of her life and discoveries; exhibits on radioactivity and minerals; personal memorabilia and family history. [Ra, Po]	Ul. Freta 16, Warsaw, Poland	N52-15.09 E21-00.51
ROMANIA			

Babeş-Bolyai U. Mineralogical Museum	Samples of tellurium and other Romanian minerals. [Te]	1 Kogalniceanu Str., Cluj-Napoca, Romania	N46-46.04 E23-35.49
Muzeul de Istorie Naturala	Samples of tellurium, gold, and other Romanian minerals (in storage). [Au, Te]	Str Cetății 1, Sibiu, Romania	N45-47.70 E24-09.29
RUSSIA			
Mendeleev Museum	Site of Mendeleev's office and laboratory at St. Petersburg; extensive exhibits of his chemistry and life. [Periodic table]	Санкт-петербургский Государственный Университет, Sankt-Peterburgskiy Gosudarstvenniy Universitet (St. Petersburg State University); (Менделеевская Линия, Mendeleevskaya Liniya, (2, Mendeleevskaya Liniya), Санкт-петербург (St. Petersburg); Ленинградская область (Leningrad Oblast); Россия (Russia)	N59-56.50 E30-17.98
Urals Geological Museum	Specimens of the region including crocoite from Berezovsky mines. [Cr]	Уральский Геологический Музей, Uralskiy Geologicheskiiy Musei (Urals Geological Museum); Кокрякова Ул. (Khokhryakova Str.) and Кужбушева Ул. (Kujbysheva Str.); Екатеринбург (Ekaterinburg); Свердловская Область (Sverdlosk Oblast); Россия (Russia)	N56-49.59 E60-35.76



Museum at Butlerov Chemical Institute	Includes historic samples of Klaus' ruthenium. [Ru]	Нихи им. а.м. Бутлерова (Butlerov Chemical Institute); Кремлевская Ул. (Kremlevskaya Str.), Казанский Государственный Университет, Kazanskiy Gosudarstvenniy Universitet (Kazan State University.), Казань (Kazan), Татарстан (Tatarstan), Россия (Russia) (plaque)	N55-47.40 E49-07.31
SCOTLAND			
Royal Museum of Scotland	Exhibits on Black and Hope. [Mg, Sr]	Chambers St., Edinburgh, Scotland	N55-56.81 W03-11.44
Museum Stores, University of Glasgow	Archival equipment and models of Soddy, including "Soddy's calculating machine" (to calculate radioactive decay) [isotopes]	Thurso Street, Glasgow, Scotland	N55-52.17 W04-17.84
SWEDEN			

Berzelius Museum	Incredibly rich museum on the life of Berzelius with much of his original equipment and chemicals samples, laboratory furnishings, atomic models, home memorabilia. [Li, Si, Se, Zr, Ce, Th]	Museum originally viewed (during year 2000) at the modern Swedish Royal Academy, Lilla Frescativägen 4A, Stockholm, Sweden; the museum is now in storage (as of 2010).  Plans are to move the museum to Observatoriekullen, Observatoriemuseet (Observatory Museum, Observatory Hill), Drottninggatan 120, Stockholm, Sweden	N59-22.02 E18-03.09.  N59-20.50 E18-03.30
Köping Museum	Extensive exhibits on Scheele ("Scheeles Minne" = "To the memory of Scheele") including elements he discovered and laboratory replica; many rooms devoted to his contributions. [F, Mn, Mo, W, O, N]	Östra Långgatan 37, Köping, Västmanlands, Sweden	N59-30.50 E16-00.01
Museum Guvstavianum	Fascinating museum including exhibits of science of 1700-1800s; includes exhibits on Celsius, Bergman (mentor of Scheele); records of Berzelius as a student. [F]	Akademigatan 3, Uppsala, Sweden	N59-51.47 E17-37.91
Falun Museum	Mining display includes exhibit on Gahn; tour of the huge historic mine is available. [Mn]	Falu koppargruva (Falun copper mine), Falun, Kopparbergs, Sweden	N60-36.01 E15-36.95

Skansen Park	Open-air museum with replicas of buildings of 200 years ago, including a full multi-roomed pharmacy patterned after Scheele's pharmacy, with some of his original equipment and furnishings from his Köping laboratory.	Apotek, Skansen Parken, Djurgården, Stockholm	Apotek: N59-19.58 E18-06.05  Entrance to park: N59-19.45 E18-05.99
Los Mine Museum	History of cobalt mine (source of nickel) [Co, Ni]	Gruvbyvägen, Los, Sweden [old spelling of village was Loos]	N61-44.52 E15-09.40
Ekomuseum Bergslagen	This “museum” is a scattered collection of about 50 geographical sites in an area of 7500 square kilometers which were historically important in the development of the metallurgy of Sweden – copper, silver, but mostly iron – and include mines, old smelters, waterways, museums, blast furnaces, harbors, ironworks, canals, etc. [Ce, Ls, Co]	Prime interest: Bastnäs Mine (discovery of cerium and lanthanum) and Brandt Manor Mines (discovery of cobalt).	Bastnäs: N59-50.75 E15-35.34  Brandt Manor: N59-49.66 E15-33.12
Uplands Vapen Apotheary	Small but interesting display associated with Scheele's old pharmacy. [F, Mn, Mo, W, O, N]	Pharmacy “museum” in modern Uplands Vapen Apotheary, Svavagallerian Mall (corner of Bredgränd and Dragarbrunsgata; extending between Kungsgatan and Dragarbrunnsgatan), Uppsala, Sweden	N59-51.50 E17-38.58
Science museum	Historic houses, exhibit on Berzelius.	Gamla Linköping ("Old Linköping"), Malmslättsvägen, Sweden	N58-24.32 E15-35.33
Utö Museum	Small rustic museum on mining history; samples of lithium minerals. [Li]	Utö Island, beside iron mine (Island), Stockholms, Sweden	N58-58.02 E18-19.75

Vaxholm Fortress Museum	Exhibit on Ytterby. [Y and heavy rare earths].	Växon (Island), Stockholms, Sweden	N59-24.19 E18-21.52
Red Cross Center	Small exhibit on Berzelius' sulfuric acid factory. [Se]	Svenska Röda Korset, Gripsholm, Sweden	N59-15.38 E17-12.82
SWITZERLAND			
Paracelsus museum	Impressive exhibits on life of Paracelsus. [concept of elements as mercury, sulfur, and salt]	Bad Pfäfers Lodge, Bad Pfäfers, Switzerland	N46-58.40 E09-29.28
Pharmaziehistorisches Museum	Rich history of alchemical and pharmaceutical chemistry; history on Paracelsus, who spent part of his life at this very site (then a publishing house of Frobenius).	3 Totengässlein, Basel, Switzerland	N47-33.52 E07-35.17
Musée d'Histoire des Sciences	Scientific instruments (historic latitude/longitude layout underlines the various projections used throughout the history geodesy).	rue de Lausanne, 128, Geneva, Switzerland	N46-13.26 E06-09.11
USA			
American Museum of Science and Energy	History of Oak Ridge and the Manhattan Project, and the development of atomic energy. [Pm, Pu]	American Museum of Science and Energy, S. Tulane Ave., Oak Ridge, Tennessee, USA	N36-00.65 W84-15.47

Lawrence Hall of Science	History of the cyclotron and science at Berkeley; original cyclotrons on exhibit. [transuranium elements]	Lawrence Hall of Science, Tilden Park, U of California-Berkeley, Berkeley, California, USA	N37-52.77 W122-14.80