

368 Orykti

A

SYLLABUS

OF A

MINERAL SYSTEM

FOR

A COURSE OF LECTURES.

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1815.

WERNERS
NACHLASS

THIS Syllabus contains the Wernerian system, except some partial deviations and alterations; the reason of which I think to explain in the course of my Lectures. The Apophyllite, for example, appears to me to be more qualified to the family of Zeolithe, than to the family of Fel-spar, where it is placed by Werner. To shew the difference between the Wernerian system in the year 1795, in which the Catalogue of the Leskean Museum was published in Germany, and the newest system of 1810, I marked the Minerals known at that time *with Italic letters*; the Minerals since discovered or determined, are printed *with Roman letters*.

...eis minimo. V. sibi adiutorum credidit et
...statis. Und agitatio. Littera sicut pectus. immo
...m. v. et dicitur. Miserere nobis. sibi. pectus
...m. sibi. pectus. Und agitatio. sibi. m.
...d. sibi. Et agitatio. sibi. Et pectus
...m. Et agitatio. sibi. Et pectus. sibi.
...v. Et pectus. sibi. Et agitatio. sibi.
...et sibi. Et agitatio. sibi. Und pectus. sibi.
...v. Et agitatio. sibi. Und pectus. sibi.
...t. Et agitatio. sibi. Und pectus. sibi.

A

SYLLABUS, &c.

I. CLASS.

EARTHY SUBSTANCES.

GENUS.	Kinds.	Species.
I. DIAMOND GENUS.	1 <i>Diamond.</i>	
II. ZIRKON GENUS.	Family of Zircon. 2 <i>Zirkon.</i> Zirkonit. 3 <i>Hyacinth.</i> 4 Cinnamon-stone.	
III. SILICA GENUS.	Family of Chry-solithe. 5 <i>Chrysoberyll.</i> 6 <i>Chrysolithe.</i> 7 Olivine. Family of Augite. 8 Kokkolithe. 9 Sahlite. 10 Augite. - - 11 Diopside. 12 Epidote. 13 Zoysite.	a. Conchoidal. b. Lamellar. c. Granular. d. Common.

SILICA GENUS.

Kinds.

Species.

Family of Garnet.	14 Vesuviane.		
	15 Leuzite.		
	16 Melanite.		
	17 <i>Garnet.</i>	- - -	a. Precious. b. Aumarsak. c. Common-Garnet.
Family of Rubies.	18 Kolophonite.		
	19 Grossular.		
	20 Allochroite.		
	21 Staurolithe.	- - -	Grenatite.
	22 Pyrope.		
	23 Zeylanite.		
	24 Automalithe.		
Family of Schorl.	25 Spinelle.		
	26 Salamrubin.		
	27 Saphire.		
	28 Saphirine.		
	29 Corundum.		
	30 Diamond-spar.		
	31 Emery.		
Family of Axinite.	32 Hardstone.		
	33 Topaz.		
	34 Euclase.		
	35 Emerald.		
	36 Beryll.	- - -	a. Precious. b. Common.
	37 Pyrophysalite.		
	38 Lievrite.		
Family of Anthophyllite.	39 Schorl.	- - -	a. Common. b. Turmaline. c. Rubellite. d. Indigolithe.
	40 Axinite.		
	41 Anthophyllite.	- - -	d. Fibrous. b. Lamellar. c. Hyperstene.
	42 Bronzite.		
	43 Dichroite.	- - -	a. Common. b. Precious.

SILICA GENUS.

Kinds.

Species.

Family of Quarts.	44 Quarts.	a. Amethyst. b. Rock crystal. c. Milk Quartz. d. Common- Quartz. e. Flexible- Quartz. f. I'rasem. g. Iron Quartz. h. Fibrous- Quartz.
	45 Cat's-eye.	
	46 Horn-stone.	a. Splintery. b. Conchoidal.
	47 Wood-stone.	
	48 Flint-slate.	a. Common. b. Lydian-stone.
	49 Flint.	
	50 Chrysoprase.	
	51 Plasma.	a. Common. b. Cornelian.
	52 Heliotrope.	c. Ribbon agate. d. Annular agate.
	53 Chalzedony.	e. Ruin agate. f. Moss agate. g. Jasper agate.
Family of Opal.	54 Jasper.	a. Egyptian Jas- per. b. Striped —. c. Porcelain —. d. Common —. e. Agate Jasper. f. Opal Jasper.
	55 Opal.	a. Precious Opal. b. Common Opal. c. Semi Opal. d. Glassy Opal. e. Wood Opal. f. Fire Opal.

SILICA GENUS.	Kinds.	Species.
Family of Opal.	55 Menilithe. 57 Pitch-stone. 58 Obsidiane. 59 Pearl-stone. 60 Pumice. 61 Silica-sinter.	a. Common. b. Precious. c. Marecanite. a. Common. b. Glassy. a. Common. b. Pearly.
Family of Zeolith.	62 Prehnite. 63 Zeolith.	a. Fibrous. b. Lamellar. a. Earthy. b. Compact. c. Granular. d. Glassy.
Family of Lapis Lazuli.	64 Mesotype. 65 Apophyllite. 66 Stilbite. 67 Chabasie. 68 Analcime. 69 Lommonit. 70 Dipyre. 71 Natrolithe. 72 Harmotome. 73 Datholithe.	a. Fibrous. b. Acicular. c. Prismatic.
Family of Felspar.	74 Lapis Lazuli. 75 Lazulithe. 76 Bluestone. 77 Hauyne. 78 Elaolithe. 79 Andalusite. 80 Felspar.	a. Compact. b. Common. c. Labrador.

SILICA GENUS.

Kinds.

Species.

Family of Felspar.	81 Mejonite.		<i>d.</i> Adular.
	82 Nepheline.		<i>e.</i> Aventurin.
	83 Ice-spar.		
	84 Chiastolithe.		
	85 Scapolithe. -		
Family of Clay.	86 Sodalite.		<i>a.</i> Common.
	87 Wernerite -		<i>b.</i> Glassy.
	88 Spodumene.		<i>c.</i> Red.
Family of Clay Slate.	89 <i>Pure clay.</i>		
	90 <i>Porcellain clay.</i>		
	91 <i>Common clay.</i> -		<i>a.</i> Potters' clay.
			<i>b.</i> Variegated clay
			<i>c.</i> Slate clay.
Family of Mica.	92 Clay-stone.		
	93 Adhesive-slate.		
	94 Polishing-slate.		
	95 <i>Tripoli.</i>		
	96 Nectilithe.		
	97 <i>Alum-stone.</i>		
	98 <i>Alum-slate.</i> -		<i>a.</i> Common.
			<i>b.</i> Glossy.
	99 Bituminous-slate.		
	100 <i>Drawing-slate.</i>		
	101 <i>Whet-slate.</i>		
	102 <i>Clay-slate.</i>		
	103 <i>Mica.</i>		
	104 Pot-stone.		
	105 Lepidolithe.		
	106 Petalite.		
	107 Pinite.		
	108 <i>Chlorite.</i> -		<i>a.</i> Earthy Chlorite. <i>b.</i> Common-Chlorite.

CLAY GENUS.

Kinds.

Species.

		c. Chlorite-slate. d. Lamellar-Chlorite.
	109 <i>Hornblende.</i> - - -	a. Common. b. Basaltic. c. Hornblende-slate. d. Shiller-stone.
Family of Trap.	110 <i>Wawellite.</i> 111 <i>Basalt.</i> 112 <i>Wakke.</i> 113 <i>Clink-stone.</i> 114 <i>Lava.</i> - - -	a. Slaggy. b. Common.
	115 <i>Iron-clay.</i>	
Family of Lithomarge.	116 <i>Lithomarge.</i> - - -	a. Friable. b. Indurated.
	117 <i>Pimelithe.</i> 118 <i>Rock-soap.</i> 119 <i>Green earth.</i> 120 <i>Yellow earth.</i> 121 <i>Brown earth.</i> 122 <i>Umbra.</i>	

V. TALC GENUS.

Family of Soap-stone.	123 <i>Native Talc-earth.</i> (Magnesite.)	
Family of Talc.	124 <i>Bol.</i> 125 <i>Meerschaum.</i> (Spuma Maris.) 126 <i>Fullers' earth.</i> 127 <i>Steatite.</i> 128 <i>Agalmatolithe.</i>	
	129 <i>Nephrite.</i> - - -	a. Common. b. Punamu-stone.
	130 <i>Serpentine.</i> - - -	a. Common. b. Precious.

TALC GENUS.

Kinds.

Species.

Family of Talc.	131 <i>Talc.</i>	- - -	<i>a.</i> Earthy. <i>b.</i> Common. <i>c.</i> Indurated. <i>d.</i> Rock-cork. <i>e.</i> Common Asbest. <i>f.</i> Amianthe. <i>g.</i> Rock-wood.
	132 <i>Asbest.</i>	- - -	

Family of Actinote.	133 <i>Actinote.</i>	- - -	<i>a.</i> Asbestous. <i>b.</i> Common. <i>c.</i> Glassy.
	134 <i>Kyanite.</i>	- - -	<i>a.</i> Fibrous. <i>b.</i> Lamellar.
	135 <i>Tremolith.</i>	- - -	<i>a.</i> Asbestous. <i>b.</i> Common. <i>c.</i> Glassy.

VI. LIME GENUS.

Family of Lime.	136 <i>Rockmilk.</i>	- - -	
	137 <i>Chalk.</i>	- - -	
	138 <i>Limestone.</i>	- - -	<i>a.</i> Compact. <i>b.</i> Globular. <i>c.</i> Granular. <i>d.</i> Foliated. <i>e.</i> Fibrous. <i>f.</i> Pea-stone.
	139 <i>Shaum earth.</i> (Friable Aphrite.)	- - -	
	140 <i>Slate-spar.</i> (Indurated Aphrite.)	- - -	
	141 <i>Brown-spar.</i>	- - -	
	142 <i>Miemite.</i>	- - -	
	143 <i>Rhomb-spar.</i>	- - -	
	144 <i>Shell-stone.</i>	- - -	
	145 <i>Bituminous-stone.</i>	- - -	
	146 <i>Marle.</i>	- - -	<i>a.</i> Earthy. <i>b.</i> Indurated.
	147 <i>Bituminous Marle-slate.</i>	- - -	
	148 <i>Tuf.</i>	- - -	
	149 <i>Dolomite.</i>	- - -	

LIME GENUS.

Kinds.

Species.

Family of Lime.	150 Gurofian.		
	151 Arragonite.	- - -	a. Fibrous. (Ig-loite.) b. Bacillar. c. Common.
	152 Conite.		
Family of Phosphate of Lime.	153 Apatite.		
	154 Asparagus-stone.		
Family of Fluate.	155 Moroxite.	- - -	a. Lamellar. b. Granular.
	156 Phosphorite.		
Family of Sulphate of Lime.	157 Fluor.	- - -	a. Compact. b. Bituminous. c. Lamellar.
	158 Gypsum.	- - -	a. Earthy. b. Compact. c. Foliated. d. Fibrous.
Family of Borazite.	159 Selenite.		
	160 Muriazite.	- - -	a. Sparry. b. Compact. c. Fibrous.
Family of Baryte.	161 Anhydrite.	- - -	a. Compact. b. Granular.
	162 Borazite.		
	163 Botryolith.		
	164 Witherite.		
	165 Baryte.	- - -	a. Earthy. b. Compact.

VII. BARYTE GENUS.

Kinds.

Species.

Family of Barytes.

- 166 *Bolognese-spar.*
167 Hepatite.

c. Granular.
d. Lamellar.
e. Columnar.
f. Prismatic.

VIII. STRONTIAN GENUS.

Family of
Stronlites.

- 168 Strontiane.
Coelestine. - -

a. Fibrous.
b. Foliated.
c. Compact.

IX. YTTRIA GENUS.

- 169 Gadolinite.

X. HALLITE GENUS.

- 170 Kryolithe. - -
- -
- -

a. Granular.
b. Earthy.
c. Foliated.

II. CLASS.

GENUS.

Kinds.

Species.

CARBONATIC SALTS.

- 171 Natron. - -
- -
- -

a. Common
b. Fibrous.

2. BORATIC SALTS.

- 172 Sassolin.
173 Tinkat.

GENUS.	Kinds.	Species.
3. NITRIC SALTS.	174 <i>Nitre.</i>	
4. MURIATIC SALTS.	175 <i>Rock-salt.</i> 176 <i>Sea-salt.</i> 177 <i>Sal Amoniac.</i>	a. Fibrous. b. Lamellar. c. Granular.
5. SULPHURIC SALTS.	178 <i>Mascagnin.</i> 179 <i>Glauber-salt.</i> 180 <i>Reussin.</i> 181 <i>Capillary-salt.</i> 182 <i>Alum.</i> 183 <i>Rock-butter.</i> 184 <i>Feather-salt.</i> 185 <i>Iron-vitriol.</i> 186 <i>Copper-vitriol.</i> 187 <i>Zink-vitriol.</i> 188 <i>Cobalt-vitriol.</i>	

III. CLASS.

INFLAMMABLE SUBSTANCES.

GENUS.	Kinds.	Species.
1. SULPHUR GENUS.	189 <i>Native Sulphur.</i>	a. Common. b. Volcanic.
2. BITUMEN GENUS.	190 <i>Petroleum.</i> 191 <i>Mineral-pitch.</i>	a. Elastic.

2. BITUMEN GENUS.

Kinds.

Species.

{

- b. Earthy.
- c. Slaggy.

{

192 *Brown-coal.*

- a. Earthy-coal.
- b. Bituminous-wood.
- c. Common-Brown-coal.
- d. Moor-coal.

{

193 *Black-coal.*

- a. Pitch-coal.
- b. Columnar-coal.
- c. Slate-coal.
- d. Kannel-coal.
- e. Lamellar-coal.

3. GRAPHITE.

{

194 *Anthracite.*

- a. Glance-coal.
- b. Coalblende.
- c. Fibrous-coal.

{

195 *Graphite.*

- a. Compact.
- b. Scaly.

4. SUCCIN.

{

196 *Amber.*

- a. White.
- b. Yellow.

{

197 *Honey-stone.*

A

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✓ Bonn
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IV. CLASS.

METALLIC SUBSTANCES.

GENUS.	Kinds.	Species.
1. PLATIN.	1 Native Platin.	
2. IRIDIUM.	2 Native Iridium.	
3. GOLD.	3 Native Gold.	a. Gold-yellow Native Gold. b. Brass-yellow n. G. c. Greyish-yellow n. G.
4. MERCURY.	4 Native Mercury. 5 Amalgam. 6 Corneous Mercury. 7 Hepatic M. Ore. 8 Cinnabar.	a. Dark red Cinnabar. b. Bright red Cinnabar.
5. SILVER.	9 Native Silver. 10 Antimonial Silver ore. 11 Arsenical Silver-ore. 12 Corneous Silver-ore. 13 Silver-black. 14 Vitreous Silver-ore. 15 Brittle Silver-ore. 16 Red Silver-ore.	a. Common native Silver. b. Auriferous native Silver. a. Dark red Silver-ore. b. Light red Silver-ore.
6. COPPER.	17 White Silver-ore. 18 Native Copper. 19 Copperglance.	17 White Silver-ore. a. Compact Copperglance. b. Foliated Copperglance.
	20 Variegated Copper-ore. 21 Copper-pyrates. 22 White Copper-ore. 23 Grey Copper-ore. 24 Black Copper-ore. 25 Earthy black Copper-ore.	

B

GENUS.	Kinds.	Species.
6. COPPER.		
	26 <i>Red Copper-ore.</i> - -	a. Compact. b. Foliated. c. Capillary.
	27 <i>Tile Copper-ore.</i>	
	28 <i>Copper-lazur.</i> - - -	a. Earthy C. L. b. Compact C. L.
	29 <i>Dioptase.</i>	
	30 <i>Malachite.</i> - - -	a. Fibrous M. b. Compact M.
	31 <i>Copper-green.</i>	
	32 <i>Ironshot Copper-green.</i>	a. Earthy I. C. b. Slaggy I. C.
	33 <i>Copper-emerald.</i>	
	34 <i>Lenticular Copper-ore.</i>	
	35 <i>Olive Copper-ore.</i>	
	36 <i>Muriatic Copper-ore.</i>	
	37 <i>Phosphor-copper-ore.</i>	
7. IRON.		
	38 <i>Native Iron.</i>	
	39 <i>Pyrites.</i> - - -	a. Common Pyrites. b. Radiated P—. c. Hepatic P—. d. Capillary P—.
	40 <i>Magnetic Pyrites.</i>	
	41 <i>Magnetic Ironstone.</i> -	a. Common M. I. b. Sandy M. I.
	42 <i>Specular Iron-ore.</i> -	a. Common. b. Titanic. c. Micaceous.
	43 <i>Red Ironstone.</i> - - -	a. Scaly. b. Ochraceous. c. Compact. d. Fibrous.

GENUS.	Kinds.	Species.
7. IRON.		
	44 <i>Brown Ironstone.</i> - -	a. Scaly. b. Ochraceous. c. Compact. d. Fibrous.
	45 <i>Black Ironstone.</i> - -	a. Compact. b. Fibrous.
	46 <i>Sparry Iron-ore.</i>	
	47 <i>Clay Ironstone.</i> - -	a. Reddle. b. Columnar Clay I. c. Lenticular Clay I. d. Common Clay. I. e. Kidney form Clay I. f. Pisi form C. I.
	48 <i>Bog Ironstone.</i> - -	a. Swamp-ore. b. Meadow-ore.
	49 <i>Blue Iron-earth.</i>	
	50 <i>Green Iron-earth.</i>	
	51 <i>Cubical Iron-ore.</i>	
8. GALENA.		
	52 <i>Galena.</i> - - - -	a. Common Galena. b. Compact Galena.
	53 <i>Blue Lead-ore.</i>	
	54 <i>Brown Lead-ore.</i>	
	55 <i>Black Lead-ore.</i>	
	56 <i>White Lead-ore.</i>	
	57 <i>Green Lead-ore.</i>	
	58 <i>Red Lead-ore.</i>	
	59 <i>Yellow Lead-ore.</i>	
	60 <i>Vitriolic Lead-ore.</i>	
	61 <i>Lead-earth.</i> - - -	a. Compact L. E. b. Friable L. E.
9. TIN.		
	62 <i>Tin-stone.</i>	
	63 <i>Tin-pyrites.</i>	
	64 <i>Wood-tin.</i>	
10. BISMUTH.		
	65 <i>Native Bismuth.</i>	

GENUS.	Kinds.	Species.
10. BISMUTH.	66 <i>Bismuth-glance.</i> 67 <i>Bismuth-ochre.</i>	
11. ZINK.	68 <i>Blende.</i> - - - - a. Yellow Blende. b. Brown Blende. c. Black Blende.	
	69 <i>Calamine.</i> - - - a. Common. b. Foliated C.	
12. ANTIMONY.	70 <i>Native Antimony.</i> 71 <i>Grey Antimony-ore.</i> - a. Common A. O. b. Plumose A. O.	
	72 <i>Black Antimony-ore.</i> 73 <i>Red Antimony-ore.</i> 74 <i>White Antimony-ore.</i> 75 <i>Antimony-ochre.</i>	
13. TELLURIUM.	76 <i>Native Tellurium.</i> 77 <i>Graphic-ore.</i> 78 <i>White Tellurium.</i> 79 <i>Black Tellurium.</i>	
14. MANGANESE.	80 <i>Grey Manganese-ore.</i> a. Radiated M. O. b. Foliated M. O. c. Compact M. O. d. Earthy M. O.	
	81 <i>Black Manganese-ore.</i> 82 <i>Red Manganese-ore.</i>	
15. NICKEL.	83 <i>Native Nickel.</i> 84 <i>Nickel-ore.</i> 85 <i>Nickel-ochre.</i>	
16. COBALT.	86 <i>White Cobalt-ore.</i> 87 <i>Grey Cobalt-ore.</i>	

GENUS.	Kinds.	Species.
16. COBALT.		
	88 <i>Glance Cobalt-ore.</i>	
	89 <i>Black Cobalt-ore.</i>	a. Earthy. b. Indurated.
	90 <i>Brown Cobalt.</i>	
	91 <i>Yellow Cobalt.</i>	
	92 <i>Red Cobalt.</i>	a. Earthy. b. Radiated.
17. ARSENIC.		
	63 <i>Native Arsenic.</i>	
	94 <i>Arsenic-pyrites.</i>	a. Common A. P. b. Argentiferous.
	95 <i>Orpiment.</i>	a. Yellow Orpiment. b. Red Orpiment.
	96 <i>Pharmacolithè.</i>	
18. MOLYBDÆN.		
	97 <i>Molybdæna.</i>	
	98 <i>Molybdæn-ochre.</i>	
19. URANIUM.		
	99 <i>Pitch-ore.</i>	
	100 <i>Uran-mica.</i>	
	101 <i>Uran-ochre.</i>	
20. SCHEELIUM.		
	102 <i>Tungsteen.</i>	
	103 <i>Wolfram.</i>	
21. TITANIUM.		
	104 <i>Menachanite.</i>	
	105 <i>Rutil.</i>	
	106 <i>Brown Titanit.</i>	
	107 <i>Yellow Titanit.</i>	
	108 <i>Black Titanite.</i>	
	109 <i>Anatase.</i>	
	110 <i>Nigrine.</i>	
	111 <i>Iserine.</i>	
22. CHROMIUM.		
	112 <i>Chromate of Iron.</i>	
	113 <i>Chromate of Lead.</i>	
	114 <i>Chrome-ochre.</i>	





