Kurzem erfolgten Tode nach Bamberg in das dortige Lindnerische Naturalienkabinet um eine geringe Summe verkauft worden sind.

Dort wo der fränkische Jura seine äussersten Kuppen an die dunklen Berge des Fichtelgebirges lehnt, im freundlichen Berneck, hat man dem Andenken Christian Heinrich Funck's eine Gedenktafel geweiht und eine Quelle in den reizenden Badeanlagen „Funcksquelle" genannt.

Diagnosen zu Thümen's „Mycotheca universalis."

Von F. von Thümen.

(Fortsetzung.)

Aecidium Asteris Thüm. in Bull. d. l. soc. d. natur. de Moscou 1877. p. 134. — *Myc. univ.* no. 935.

Aec. acervulis parvis, dense gregariis, in macula orbiculata, fusca, aurantiacis, ore laevi, crasso, hypophyllis; sporis irregulariter ellipsoideis vel angulosis, verruculosis, verruculis minutis, episporio tenui, intus granulosis, hyalinis, 22 mm. diam.

Sibiria occidentalis: Minussinsk in pratis subalpinis ad *Asteris alpini* Lin. folia viva. leg. N. Martianoff.

Aecidium Centranthi Thüm. in Verz. des Schles. Bot. Tausch-Vereins 1874. f. *Centranthi Calcitrapae.* — *Myc. univ.* no. 938.

Ins. Sicilia: Licata ad folia viva *Centranthi Calcitrapae* Dufresn. Vere 1877. leg. V. Beltrani.

Aecidium Mac Owanianum Thüm. in Flora 1875. p. 380. f. *Conyzae pinnatilobatae.* — *Myc. univ.* no. 1023.

Promont. bonae spei: ad ripas rivulorum montis „Boschberg" pr. Somerset-East. Aut. 1875. (no. 1111).

leg. Prof. Mac Owan et Tuck.

Aecidium Pelargonii Thüm. in Flora 1877. p. 411. — *Myc. univ.* no. 1026.

Aec. soris hypophyllis, dense gregariis, concentrice dispositis, parvis in macula minima, expallescentia, dilute aurantiacis, ore sublacerato vel crenato, albo-luteo, crasso, elevato; sporis ellipticis vel subglobosis, 21—24 mm. long., 18—22 mm. crass., episporio subgranuloso vel obsolete verruculoso, subcrasso, hyalino, utrinque rotundatis, pallidissime flavidis, interdum laevi-catenulatis.

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Promont. bonae spei: Somerset-East in foliis vivis *Pelargonii alchemilloidis* Willd. in dumetis ad pedem montis „Boschberg." Nov. 1876. leg. Prof. P. Mac Owan.

Aecidium Astragali Thüm. — *Myc. univ.* no. 1117.

Aec. pseudoperidiis hypophyllis, dense gregariis, minutis, orbiculatis, pallide luteis, ore laevi, subcrasso, integro pallidiore; sporis irregulariter globosis vel rotundo-polygonis, achrois (an semper?) in speciminibus siccis, episporio laevi, tenuissimo, plerumque 16 mm. diam.

Sibiria occidentalis: Minussinsk in *Astragali melilotoidis* Pall. foliis vivis in desertis. 1877. (no. 355.)

leg. V. Martianoff.

Roestelia transformans Ellis in Bull. Torrey Botan. Club. V. p. 3. *var. fructigena* Thüm. — *Myc. univ.* no. 1029.

America septentr.: Newfield — New-Jersey — in fructibus vivis *Pyri arbutifoliae* Lin. fil. Aest. 1874. leg. J. B. Ellis.

Puccinia Thuemeniana Voss. in Oesterr. bot. Zeitschr. 1877. p. 404. — *Myc. univ.* no. 942.

Fungus stylosporiferus: U. sporis globosis, episporio laevi, luteo-fusco, 26—31 mm. diam. acervulas minutas, hemisphaericas, dilute fuscas, hypophyllas formans.

Fungus teleutosporiferus: P. acervulis amphigenis, nigris, liberis, sporis globoso-ellipticis, medio parum constrictis, 29—36 mm. long., 24—29 mm. crass.; cellulis inferioribus brevioribus, sursum sensim applanatis, vertice non incrassatis, spadiceis, verruculosis; pedicellis hyalinis, 58—73 mm. long., basi parum incrassatis.

Tirolia: Kupelwies in valle Ulten ad *Myricariae germanicae* Desv. foliis ramulisque vivis. Exeunte aestate 1877. com. W. Voss. leg. J. Gruber.

Puccinia Cephalandrae Thüm. in Flora 1876. p. 425. — *Myc. univ.* no. 1031.

P. acervulis hypophyllis, sparsis, applanatis, orbiculatis, umbrinis, liberis; sporis ovatis vel ellipsoideis, medio obsolete constrictis, vertice non incrassato sed apiculato, apiculo pallide fuscescente, 8 mm. longo, episporio tenui, laevi, in constrictionibus crassiore, granuloso, pedicellatis, pedicello tenui, curvato vel recto, hyalino, longitudinis sporae vel longiore, usque ad 52 mm., impellucidis, fuscis, 42—45 mm. long. (sine apice pedicelloque), 26 mm. crass., paraphysibus nullis.

Promont. bonae spei: Somerset-East in fructicetis ad latera

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montis „Boschberg" ad *Cephalandrae quinquelobae* Schrad. folia viva. 1875. leg. Prof. P. Mac Owan.

Puccinia exhauriens Thüm. in Flora 1876. p. 425. — *Myc. univ.* 1034.

P. acervulis hypophyllis, minutis, rotundatis, planis, sparsis dein confluentibus in macula non limitata, expallida, straminea, brunneis; sporis valde variis: clavatis, ellipsoideo-clavatis aut fere ovatis, medio constrictis, episporio tenui, laevi, vertice subincrassato, loculo inferiore subattenuato, loculo superiore oblongó-ovato, 40—50 mm. long., 20—22 mm. crass., dilute griseis, subdiaphanis, pedicello brevissimo hyalino.

Puccinia Jasmini De C. in *Jasmino fructicante* folia fere toto occupans, sporis ovatis, episporio crassissimo, pedicello longo, brunneis, toto coelo diversa est!

Promont. bonae spei: in *Jasmini tortuosi* Willd. foliis vivis pr. Somerset-East 1875. leg. P. Mac Owan et Tuck.

Puccinia Urospermi Thüm. — *Myc. univ.* no. 1127.

P. acervulis amphigenis, gregariis, interdum confluentibus, mediis, primo epidermide tectis, dein liberatis, atro-fuscis, subinquinantibus; sporis aut ellipticis aut ovoideo-globosis aut subglobosulis, medio non constrictis vel minime subconflexulis, vertice basique rotundatis, episporio laevi, tenui, aequali, obscure fuscis, diaphanis, 32—38 mm. long., 24—28 mm. crass., sessilibus vel brevissime stipitatis. — *P. Hieracii* Mart. sporis minoribus modo ut 27—29 mm. long., 18—20 mm. crass., dilutioribus, *P. Tragopogonis* Cda. sporis episporio verruculoso-spinuloso valde differunt.

Insula Sicilia: Licata ad folia viva *Urospermi Deleschampsii* Desf. Jun. 1878. leg. V. Beltrani.

Uromyces Desmodii Thüm. — *Myc. univ.* no. 946.

U. acervulis amphigenis, in pagina superiore sparsis, minutis, in pagina inferiore dense gregariis, plerumque confluentibus, velutinis, atro fuscis; sporis ellipsoideis vel globoso-ellipticis, vertice subobtuso, pallidiore, crasso, episporio dense verruculoso, verruculis minutis, tenui, ferrugineis, 24—30 mm. long., 15—18 mm. crass., longipedicellatis, pedicellis hyalinis, flexuosis, 58—74 mm. long.; inaequalibus, superne subincrassatis vel in spora dilatatis; paraphysibus nullis.

A *Uromycete solido* Berk. et Curt. in Grevillea III. p. 57, cum soris punctiformibus, sporis crassipedicellatis et a

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Uromycele appendiculoso Lév. etiam in *Desmodii* specibus crescens toto coelo diversum!

America septentr.: Aiken — Carolina australis — in foliis vivis *Desmodii ciliaris* De C. 1876. (no 2223.) leg. H. W. Ravenel.

Uredo Aspidiotus Peck in XXIV. Rep. New-York State Museum Nat. Hist. p. 88. f. *Dryopteridis.* — *Mycoth. univ.* no. 950.

U. maculis flavis vel viride-flavis, distinctis vel raro confluentibus, *Aspidioto* similaribus in forma; soris uni — terni in pagina superiore; sporis luteis, ovatis vel pyriformibus. — A *Uredine Filicum* Schlcht. differt toto habitu et sporarum forma modulusve.

America septentr.: Adirondack Mountains — New-York — in frondibus vivis *Polypodii Drypteridis* Lin. Aug. 1876.
leg. Ch. H. Peck.

Uredo Pelargonii Thüm. f. *Pelargonii alchemilloidis.* — *Myc. univ.* no. 955.

U. acervulis hypophyllis, gregariis, concentrice dispositis, mediis, planis, primo epidermide tectis, rufo-fuscis in macula indeterminata, vix pallescentia, sporis aut solitariis aut catenulatis, catenulis quadri — sex-sporis, rectis, globosis vel ellipticis saepe basi verticeque apicibus minimis impositis, hyalinis, episporio tenui, laevi, 9—10 mm. long., 7—9 mm. crass.

Promont. bonae spei: Somerset East in *Pelargonii alchemilloidis* Willd. foliis vivis in dumetis ad pedem montis „Boschberg." Aest. 1875. leg. Prof. Mac Owan.

Uredo Thermopsidis Thüm. in Bull. Soc. Natur. de Moscou 1877. p. 139. — *Myc. univ.* no. 1042.

U. acervulis hypo- raro etiam epiphyllis, orbiculatis, sparsis, liberis, fuscis, epidermide circumdatis; sporis ovatis, nucleolatis, episporio tenui, laevi, dilute fuscis, 22—25 mm. long., 18—20 mm. crass., paraphysibus nullis.

Sibiria occident.: Minussinsk ad *Thermopsidis lanceolatae* R. Br. folia viva. Aest. 1876. leg. N. Martianoff.

Ureodo Schanginiae Thüm. in Grevillea VI. p. 104. — *Myc. univ.* no. 1043.

U. acervulis magnis vel plerumque confluentibus, saepe folia baccasve tote occupans, liberis, subinquinantibus, concavis, rubiginosis; sporis ovoideis vel ovato-globosis, episporio laevi, subtenui, aequali, luteo-fuscis vel dilute rhabarbarinis, intus subgrumulosis, 20—24 mm. long., 16—20 mm. crass.

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Aegyptus: Damiette, ad folia baccasque viva *Schanginiae baccatae* Moq. Tand. Aest. 1876. leg. Dr. G. Schweinfurth.

Caeoma nervisequum Thüm. in Flora 1877. p. 412. — *Myc. univ.* no. 1141.

C. acervulis hypophyllis, gregariis, semper internervalibus, mediis, confluentibus, subfirmis, tectis, pro maxima parte seriatis, pallide ochraceo-luteis, in foliorum pagina superiore maculam rufo-fuscam formans; sporis valde irregularibus, oblongis, ovatis, subglobosis, ellipticis, sed semper plus minusve compressis, in catenulis rectis, longissimis, 8—20 sporis, hyalinis, intus granulosis, episporio tenuissimo, laevi, 20—22 mm. long., 16—18 mm. crass.

Promont. bonae spei: Somerset East in sylvis ad pedem montis „Boschberg" in *Cheilanthis hastatae* Knz. frondibus vivis languidisve. Jul. 1876. leg. Prof. P. Mac Owan.

Caeoma Phillyreae Thüm. et Bagn. *Uredo Phillyreae* Cooke Fungi brit. Ser. I. no. 592 absque diagnosa. — *Myc. univ.* no. 1142.

C. maculis rotundis, luteis; acervulis solitariis in maculae centro seu gregariis in circulis dispositis, aurantiacis, primo epidermide tectis, demum liberis; sporis obovato-globosis vel plerumque ellipticis, sublaevibus, subtilissime spinulosulis, apedicellatis, aurantiacis, 25 mm. long., 16 mm. crass., episporio subcrasso, hyalino.

Roma: Monte Giannicolo in *Phillyreae mediae* Lk. foliis vivis. Febr. 1878. leg. Dr. C. Bagnis.

Coleosporium Elephantopi Thüm. *Uredo Elephantopi* Schwz. Syn. fung. Carol. p. 70. no. 467. f. *Elephantopi caroliniani.* — *Myc. univ.* no. 953.

America septentr.: Aiken — Carolina australis — ad folia, petiolos calycesque viva *Elephantopi caroliniani* Willd. Aut. 1876. leg. H. W. Ravenel.

Coleosporium Ligulariae Thüm. in Bull. Soc. Natur. de Moscou 1877. p. 140. — *Myc. univ.* no. 1046.

C. acervulis gregariis, hypophyllis, saepe confluentibus, applanatis vel vix elevatis, rubris; sporis 3—4 conjunctis, fere globosis, sed compressis, 20 mm. long., 28 mm. crass., concatenatis, 80—85 mm. longitudine catenularum, episporio tenui, laevi, sporis terminalibus acutatis, pulchre ochraceo-flavis; paraphysibus nullis.

Sibiria occidentalis: Minussinsk in *Ligulariae sibiricae* De C. foliis vivis. 1876. leg. N. Martianoff.

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Melampsora pallida Rostr. in Tidskrift. f. Skorbrug II. p. 153. Kjöbenhaven 1877.

Fungus stylosporiferus = *Caeoma Sorbi* Ouds. (*Myc. univ.* no. 149.) — *Myc. univ.* no. 1050.

Fungus teleutosporiferus: Acervulis hypophyllis, sparsis, aggregatis, confluentibusque, pallidis; sporis oblongis vel clavatis, pallidis, 26—32 mm. long., 10—16 mm. crass., vix cohaerentibus.

Dania: Skårup — ins. Fioniae — ad folia viva et languescentia *Sorbi Aucupariae* Crantz. Aut. 1876. leg. E. Rostrup.

Melampsora Cynanchi Thüm. in Bull. d. Soc. Imp. des Naturalistes de Moscou 1877. I. p. 140. — *Myc. univ.* no. 1136.

Fungus stylosporiferus: Uredo acervulis elevatis, hypophyllis, raro amphigenis, orbiculatis, liberis, aurantiacis, sparsis, disciformibus; sporis plus minusve globosis vel late ellipsoideis, episporio crasso, hyalino, laevi, nucleo flavo, granuloso, 20—22 mm. diam.

Fungus teleutosporiferus: M. acervulis semper tectis, dense gregariis, hypophyllis, rotundis, saepe confluentibus, badiofuscis, induratis, parvis; sporis late cylindraceis vel vix cuneatis, episporio laevi, tenui, intus granulosis, 55 mm. long., 12 mm. crass., flavo-fuscis.

Sibiria occidentalis: Minussinsk in subsalsis et locis arenosis ad folia viva *Cynanchi sibirici* R. Br.; stylosporae teleutosporaeque eodem tempore. 1877. (no. 118.) leg. N. Martianoff.

Melampsora Medusae Thüm. in Bullet. New-York Torrey Bot. Club. VI. p. 216. — *Myc. univ.* no. 1137.

Fungus stylosporiferus: Acervulis gregariis, amphigenis, minutis, aurantiacis, liberis pro maxima parte in foliorum pagina superiore; sporis ovoideis vel globoso-ovoideis, basi angustato-obtusa, apice late obtusa, episporio laevi, tenui, protoplasmate granuloso, 20—22 mm. long., 14—16 mm. crass.; paraphysibus nullis.

Fungus teleutosporiferus: vix a *M. populina* Lév. diversus. — Fungus stylosporiferus differt ab *Uredine longicapsula* De C. (*Melampsora populina* Lév.) et *Uredine ovata* Str. (*Melampsora Tremulae* Tul.) sporis laevibus et paraphysibus deficientibus et species propria diversa est.

America septentr.: Aiken — Carolina australis — in *Populi angulatae* Ait. (*P. Medusae* Benth.) foliis vivis languidisve (Uredo) vel aridis (Melampsora propria). 1876. leg. H. W. Ravenel.

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Uredo mixta Duby Bot. gall. II. p. 231. f. *Salicis capensis.* Thüm. in Flora 1875. p. 379. — *Myc. univ.* no. 1140.

U. acervulis hypophyllis, erumpentibus, aurantiacis; sporidiis ovoideis, episporio reticulato, fuscis, 22 mm. long., 14—16 mm. crass. — Fortasse *Melampsorae salicinae* Lév. fungus stylosporiferus.

Promont. bonae spei: Somerset-East in *Salicis capensis* Thunbg. foliis vivis. 1875. (no. 1029.)

leg. Prof. P. Mac Owan.

Cronartium gentianeum Thüm. in Oesterr. bot. Zeitschr. 1878. p. 193. — *Cronartium asclepiadeum* Fr. f. *Gentianae* aut. — *Myc. univ.* no. 1139.

Fungus stylosporiferus: Acervulis hypophyllis, prominulo-globosis, subinduratis, gregariis, pallide aurantiacis in macula subexpallida, irregularia, in pagina superiore vix visibilia; sporis globosis vel ellipticis, hyalinis, simplicibus, episporio subcrasso, subechinulato, intus granulosis, 20 mm. long., 12—15 mm. crass.

Fungus teleutosporiferus: In capitulo erecto, firmo, fusco conjuncto, sporis globosis vel ovoideis, fuscis, laevibus, simplicibus, 8—12 mm. diam.

Carniolia: Laibach in *Gentianae asclepiadeae* Lin. foliis vivis. Jul. 1877. leg. Prof. W. Voss.

Asterina orbicularis Berk. et. Curt. in Grevillea IV. p. 9, no. 784. *var. disjecta* Thüm. sec. Berkeley. f. *Ilicis opacae.* — *Myc. univ.* no. 961.

America septentr.: Aiken — Carolina australis — ad folia decidua *Ilicis opacae.* Aest. 1876. leg. H. W. Ravenel.

Obs. Sec. Berkeley in litt. ad me forma *Ravenelii* in Fungi caroliniani exsiccati IV. no. 69!

Microthyrium minutissimum Thüm. — *Myc. univ.* no. 962.

M. peritheciis epiphyllis, sparsis, minutissimis, scutiformibus, epidermide perforantibus, membranaceis, adpressis, atris; ascis sessilibus, pyriformibus, apice incrassatis, 27 mm. long., 12—14 mm. crass., hyalinis; sporis cylindraceis, utrinque obtusis, bicellularibus, tri- vel quadrinucleatis, bi- vel triseriatis, 9 mm. long., 2.5—3 mm. crass., hyalinis; paraphysibus nullis.

Roma: Monte Gianicolo in *Eriobotryae japonicae* Lindl. foliis subputridis. Hieme 1875. leg. C. Bagnis.

Stigmatea alpina Spegaz. — *Myc. univ* no. 1057.

St. peritheciis superficialibus, subcarbonaceis, e globoso-

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coneideis, atris, 250—300 mm. diam.; ascis elliptico-clavatis, breve et crassiuscule stipitatis, aparaphysatis, tenue tunicatis, octosporis, 70—80 mm. long., 30 mm. crass.; sporis distichis vel tristichis, hyalinis, uniseptatis, medio valde constrictis, loculo inferiore minore et guttulis duabus magnis donato, 25—30 mm. long., 10—11 mm. crass.

Venetia: Conegliano ad folia viva *Juniperi communis* Lin. Raro. Oct. 1877. leg. C. Spegazzini.

Sphaerella Impatientis Peck et Clinton. — *Myc. univ.* no. 963.

S. hypophylla, peritheciis minutis, nigris, innatis, prominulis aut ad maculas irregulares angulatas, subconfluentes venulis limitatas collectis; ascis subcylindraceis, saepe curvatis et sursum angustatis; sporis biseriatis, uniseptatis, oblongis, hyalinis, 0.0004—0.0005 unc. longis, rarius quadrinucleatis, inferiore cellula plerumque angustiore. — *Sphaerellae maculaeformi* Fuck. affinis.

America septentr.: Adirondack Mountains — New-York — ad folia viva emarcidave *Impatientis fulvae* Nutt. Aug. 1876. leg. Ch. H. Peck.

Sphaerella Leersiae Pass. — *Myc. univ.* no. 965.

Perithecia sparsa, punctiformia, atra, depressa, poro simplici pertusa; asci obliqui, recti vel curvi, apice saepius attenuati, octispori; sporae oblique uniseriatae vel distichae, oblongo fusiformes, subinaequilaterales, quadriguttulatae, inter guttulas obscure tenuissime septatae hyalinae.

Parma: ad *Leersiae oryzoidis* Lin. folia arida. Aut. 1876. leg. Prof. Passerini.

Obs. Maculae foliorum fuscae oblongae e Cladosporio ortae videntur.

Sphaerella convexula Thüm. — *Sphaeria convexula* Schweinz. Syn. North American Fungi p. 224. no. 1788. — Berk. et Curtis in Grevillea IV p. 154. f. *Caryae tomentosae* — *Myc. univ.* no. 1149.

America septentr.: Aiken — Carolina septentrionalis — in *Caryae tomentosae* Nutt. foliis languidis aridisve. (no. 2225.) leg. H. W. Ravenel.

Obs. Specimina plerumque non perfecte evoluta.

(Fortsetzung folgt.)

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