

Lecanora

asp 256	Rinodina: Th. crust. uniform.	
Eulec 360	Disco atro nudo	
Plac 601-664	-atra	378
Placopsi 665-67-	-arcopholis	456
^{Incerta}	-prosecha	343 asp
Ochrolechia 675-70-	lancea	31693, 71447
-715-711	-ostracoderma	495
Lecama 711-717	crabica	284 asp
Solenopsis 752-756	multivincta	286 asp
Haematomma 757-77	griseoatra	31776
Phlyct. 777-84	falsaria	31821
" cella 85-88	metabolica	71527, 747
Cand-814	conmutata	4155
	-concretata	419
	+leucosis	684 Ochrolechia
	verrucosa	357 asp
	peridea	21561
	sophodes	71550
	pyrinx	
	colobina	71498
	milvina	71529
	fuscoatra	31582
	Disco decolorato glaucescenti: tc.	
	-rurica	527
	Villarsii	21664
	Carantonias	21506
	-cenisia	410
	-elucora	526
	-Sartzi	533
	-angulosa	404
	-chondrotypa	500
	-subearnea	547
	-excisionabella	401
	lateocens	766 Haematomma
	-Heroni	464
	variabilis	71191
	Disco varie colorato nudo	
	-albella	497
	parella	687 } Ochrolechia
	tartarea	696 }
	Turneri	692 }
	Stonci	761 Haematomma
	caracoluta	235 Pertusaria
	-expallens	449
	-scrupulosa	544
	-livida	482
	-psoralis	370
	rubelliana	71180
	-detrita	415
	-oppon.	447
	-varia	592
	-intricata	474
	-ocri-naeta	426
	-anomala	366
	grauulosa	5772
	minutula	5773
	apospila	713 heca na
	-spodophaea	510
	rubricosa	7166
	-effusa	536
	-trypelia	409
	elatina	766 Haematomma

Eulec 36

Aspic. 5

Ochrolechia 4

Haematomma 6

Placod 13

Placops 1

Solenops 1

Candelar 1

1875

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1900

inulnina	7:136	
haematorma	760	Haematorma
rubra	2:716	
corina	7:85	
cruspedia	7:66	
bryontha	2:34	cruspedia
-subfusca	551	
punica	769	Haematorma
-subbryon	564	
cystaspis	-	
-distincta	445	
-poliophaea	509	
-thallina	458	
bella	59	acc. sup. 10
ventosa	774	Haematorma
-sulphurea	576	
-orosthea	493	
calicina	7:72	
erythrella	7:132	
cinnabarina	7:101	
citrina	7:184	
vitellina	804	Ca. telio
incrustana.	7:7	
Psorona: Th. crust. effig.		
-Ladwigii	457	
-badia	393	
halophaca	56	acc. sup.
decipiens	3:876	
testacea	3:894	
placodarpa	68	acc. sup.
smithii	622	Placod
chrysolouca	656	
rubina	657	
crassa	658	
tricolor	7:700	
tribasica	7:184	
cartilaginea	608	Placod
rutilans	7:297	
condalaria	7:279	
hyporum	3:271	
leptora	3:271	
brunnea	3:251	
microphylla.	3:214	
Placodium: Th. crust. planiusculum habitu radioso-stellato sublobato		
adscensionis	7:580	
epicea	752	Solenopora
acciolita	7:580	
lentigera	627	Placod
Lacazeae	625	
galactina	365	acc. sup.
teicholyta	7:186	
circinata	649	
concolor	642	Placod
pyrrena	652	
melanospis	631	
calida	665	acc. sup.
Ascoliana	672	
elbina	3:241	
polybdina	102	acc. sup.
creutica	103	
micola	634	Placod

THE UNIVERSITY OF CHICAGO

PHYSICS DEPARTMENT

PHYSICS 309

LECTURE NOTES

These notes are intended for use in the course of the semester. They are not to be distributed outside the course.

straminea 661 Placod

murorum 7:250

miniata 7:252

glacens 7:233

chlorophana ~~7:105~~ Acarosp

oxytona 107 S

callopisna 7:220

fulgens 7:206

Commerce and Finance Library

The Lincoln library of essential information.

Social planning council of Saint Louis; Dept. of social research.	City street index.	310
Social planning council of Saint Louis. Dept of social research.	County street index.	310
Rhodes, E. C.	Elementary statistical methods.	311
Wold, H.	A study in the analysis of stationary time series.	311
Haney, L. H.	Value and distribution.	330
Schumpeter, J. A.	Business cycles. 1st ed. 1939. 2 v.	330
Hadley, Charles R., co., Clyde, W. H.	Manual of pathfinder truck cost system. A history of the modern and contemporary Far East.	657 950

Mechanical & Electrical Engineering Departments

Clayton, A. E.	The performance and design of direct current machines. 2d ed. 1938.	EE
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Reed, H. R.	Electrical engineering experiments.	EE
Whytlaw-Gray, R. W.	Smoke.	ME

Geology Department

Adams, F. D.	The birth and development of the geological sciences.
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Casteret, N.	Ten years under the earth.
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English, G. L., comp.	Descriptive list of the new minerals, 1922-1938.
Fenton, C. L.	Our amazing earth.
Forbes, A.	Northernmost Labrador, mapped from the air.
Fryxell, F. M.	The Tetons.
Hager, D.	Fundamentals of the petroleum industry.
Huebner, W.	Geology and allied sciences. v.1. 1939.
James, H.	Romance of the national parks.
Jefferson, M.	Peopling the Argentine Pampa. 1939.
Gutenberg, B., ed.	Internal constitution of the earth. 1st. ed. 1939.
London, C. E.	Industrial geography.
Lee, W.	Stratigraphic and paleontologic studies of the Pennsylvanian and Permian rocks in north-central Texas.
Legget, A. F.	Geology and engineering.
Lobeck, A. K.	Geomorphology.

	Pannarioid	Didymosporae	Phragmosporae	Dictyosporae
Biatorine				
ECorticate				
Crustose	Leprocollema			
foliose	Leciophysma	Homothecium		
Corticate				
foliose	Koerberia		Hydrothyria	
fruticose	Lemmopsis		Koerberia	
	Ramalodium			
Lecanorine				
ECorticate				
Sessile	Lempholemma	Dicollema	Synechoblastus	
			Collemodiopsis	
Immersed	Collema	Pyrenocollema		
Corticate above			Pseudoleptogium	
Corticate				
Pseudoparenchy				
sessile				Homodium
immersed	Arnoldiella	L. rivale		
Plectenchymat				
etomentose			Leptogiopsis	Leptogium
tomentose				
foliose				Mallotium
fruticose				Leptolobaria

~~crustose~~ — Arnoldiella
 Amphicollema
 Lecanospira
 foliose, Lecanospira
 fruticose — Collema

Scytonema
 Stigonemum

Epehaceae Masalongia Placynthium

Gloeocapsa

Pyrenopsidaceae

Rivularia

Lichinaceae

Nostoc

Collema

"

~~Aspicular~~
 Pannariaceae — + + + + +

Stictaceae

Nephroma
 Solormella Peltigeraceae

hyphal cortex
 acanthocordax
 pseudopar

Coccocarpia Hydrothyria

Lepidocollema
 Lepidoleptogium
 Masalongia Placynthium

Parmeliella
 Pannaria
 Physma
 Erioderma
 Huella

OFFICE OF THE SECRETARY

American Board of Ophthalmology

JOHN GREEN, M. D.
3720 WASHINGTON BOULEVARD
ST. LOUIS, MISSOURI

MISS LEA M. STELZER, Registrar
6830 Waterman Ave. St. Louis, Missouri

August 18, 1938.

Dear Doctor:

The American Board of Ophthalmology will hold an examination at the New York Eye and Ear Infirmary, 218 Second Ave., New York City, Friday, October 7th, at 8:00 A.M. Kindly register promptly at 8:00 A.M. with the Registrar. Your examination will cover the following subjects:

External Diseases -Slit Lamp
Ophthalmoscopy
Histology and Pathology
Anatomy and Embryology
Refraction-Retinoscopy

Muscles-Motility
Perimetry
General Diseases-Neurology
Therapeutics - Operations
Practical Surgery
Optics and Visual Physiology

The examination will occupy the entire day and unfinished subjects may require completion in Washington on Saturday or Sunday. Please bring with you any small instruments such as ophthalmoscope, retinoscope or loupe that you habitually use. The examination in ophthalmic surgery will consist of an oral quiz and surgery on animal eyes. Kindly bring with you instruments necessary for a combined capsulotomy extraction.

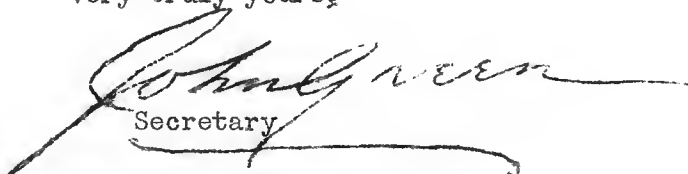
In Refraction candidates will be required to show a thorough understanding of the technique of the fogging method, of the use of astigmatic dials in measuring astigmatism, and of the cross-cylinder tests for strength and axis of astigmatism.

A set of microscopic slides illustrating phases of ophthalmic histology and pathology can be obtained through this office upon deposit of \$25.00 which will be refunded upon return of the slides in good condition.

For 1939, the Board announces an examination in St. Louis in the Spring at the time of the meeting of the American Medical Association, and also at the place of the meeting of the American Academy of Ophthalmology and Oto-Laryngology, usually in October.

Kindly fill in attached card and mail to me at once regardless of previous arrangement or correspondence. It is necessary that the Board know immediately the number of candidates who will appear at this examination.

Very truly yours,


Secretary

IMPORTANT: Please retain this letter for your information.

Pyrenocollema - Venezuela

Leprocollema - Brazil N Caledonia

Lecrophysma - Finland

Hempholemma

Arnoldiella - France

Eulempholemma Europe Australia St Vincent off Guca

Lepidora Tauric peninsula

Arnoldia Europe N Am

Hemphospora Guadeloupe S Domingo CR Pan perhaps better Parmariace

Collemella N Am

Hemmopsis Europe N Am

Phyisma - Oceania 1 Chile + Antilles perhaps Parmariace

Homothecium Chile

Collema

Synechoblastus Eur ^{N Am} Trop Asia Mauritius Australia S Am N Am

Collemodiopsis Europe Java Antilles

Blennothalia Europe Antilles N Am Trop Am. Tonkin Jap ^{India} Austral

Collemodes ohio

N Afr

Koerberia Europe

Arctomia N Eur + Siberia

Ramalodium Australia perhaps better in Parmariaceae

Leptogium

Collemodium Eur N Am N Afr. Siberia

Pseudoleptogium Europe

Leptogropus Europe S Afr Philippines Guana

Euleptogium

Homodium Eur Siberia California N Am. W Afr

Mallotium Chile + Europe N Am Trop Am Japan India P. I.

Leptobaria Chile to Antilles.

Aphanopsis Europe

American Board of Ophthalmology

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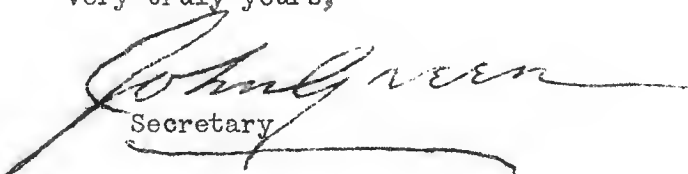
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Very truly yours,


Secretary

IMPORTANT: Please retain this letter for your information.

Problems ⁱⁿ of the Collemales

Morphology

Thallus

crustation

crustose foliose fruticose

apothecium

Position

Nature of parathecium

Spores

Geogr. Distribution

Temp & Altitude

Moisture ~~more~~ relative humidity

Phylogenetic ~~more~~ distribution on Eur. N. Am.

Biotope Lecanorine

sessile to immersed to sessile

unicellular to Dictyosporous

Ecorticate to Corticate

plectenchyrmatous to pseudopar
smooth to hairy?

Ontogeny

immersed to sessile on lecanorine

plectenchyrmatous to pseudopar

smooth to foliolate apoth.

Classification

LEPTOGIUM IN AUSTRALASIA

Spores bilocular, apothecia 0.2-0.7mm Victoria Homodium?biloculare
Spores 5-septate, apothecia 1-2.2mm, Philippines Leptogiopsis pacificum
Spores muriform

Thallus tomentose below

Mallotium

L. trichophorum

L. plumbeum

Thallus not tomentose below

Thallus isidiose or microphylline

~~Margins crowdedly ciliate, not other isidiose~~

~~bullatulum~~

~~Margins densely microphylline lacinate~~

~~L. fallax~~

~~v. congestum~~

Upper surface as well as margins densely microphylline isidi
isidiose

✓ L. trem. myriophyllum

✓ L. trem. isidiosa

~~Margins only denticulate isidiose or fibrillose lacerate~~

~~thallus plicatulo-rugulose~~

~~L. laceratulum~~

Margins and upper surface isidiose

Thallus wrinkled

Wrinkles very fine, longitudinal

✓ L. caesium trachynum

Wrinkles reticulate 40-80u high

✓ L. propaguliferum

Thallus not conspicuously wrinkled when dry

✓ L. pychneoides

~~L. fallax f. isidiigerum~~

✓ L. consimile

✓ L. granulans

Dendriscaulon umhausense Degel., Ark. Bot., 30:3:28, 1940.

Cornicularia umhausensis Auerw., Hedwigia 8:113, 1869.

✓ *Rhyscia ciliata* v. *erythrocardia* Degel., Ark. Bot., 30:3:70, 1941.
R. obscura v. *erythrocardia* Tuck., Proc. Amer. Acad. Arts Sci., 4:399, 1860

✓ *Pseudoleptogium* Mull. Arg. = *Leptogium* sect. *Homodium*
Leptogium diffractum Krmph. (*Pseudoleptogium* diff. MA) belongs in *Homodium*

✓ *Leptogium placodiellum* Nyl. " " " "

✓ *Collema leptogroides* Anzi belongs in *Leptogium* sect. *Collemodium*

Leptogium Marci Harm " " "

Parathesium absent L diaphanum C Kambori

Parathesium pseudopar

- L inflexum
- L foveolatus cellosmalt
- L microstictum
- L vesiculosum
- L stipitatum
- L phyllocarp
- L coralloideum
- L marginellum
- L denticulatum?
- L Tuckermanni thin
- L simplicius
- L laevius
- L lafayetteanum
- L pachycheilum
- L olivaceum Malme
- L simplicius
- ? L conchatum
- L stellans
- L Brebissonis at least Tex, Brazil.
- L chloromelum
- L microcarpum
- L pilcomayensis
- L matto grossoensis
- L picheum Malme

- C glaucophthalmum
- C leptosporum
- C microptychum
- C paraguayensis
- C granadilla
- C glaucophthalmum
- C simplicatum

Parathes filamentosa

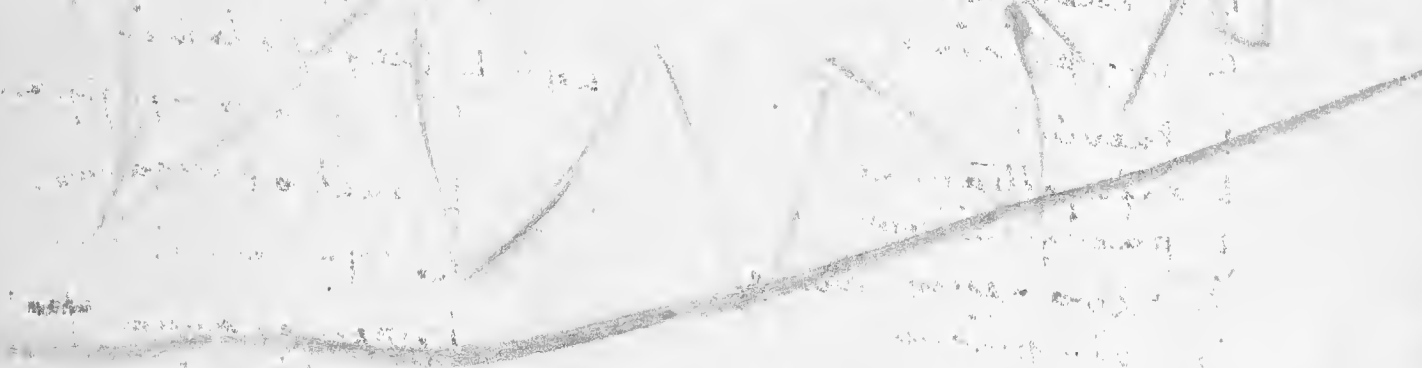
- L olivaceum
- v granulosa
- L denticulatum?
- L azureum
- L Standleyi
- L Puccarii
- L brasiliense
- L pulchellum
- L dimorphum
- L schiffneri
- Lopis L megapotamic
- L picheum Nyl Japan
- L austramericanum
- L cyanescens Italy
- L maluccanum Malme
- L denticulatum
- L Menziesii
- v. fusiforme
- L australe.
- C pycnocarpum
- C cyrtaspis

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Leptogium Diaphanum

NEW ENGLAND BOTANICAL CLUB

Heredia: Santo Domingo Del Roble	1600 m	Dodge and V.F. Garger	9592
Patzcuaro, Mexico:	1000 m	C.Q. Pringle	225
Porto Rico: Luquillo Mts., El Yunque	—	Perry Wilson	59
Jamaica: Newcastle to Hardware Gap Road	—	A.W. Evans	—
Columbia: Bogota	2600 m	Sindig	2518
Columbia: Dept. Santander	1500-1900 m	E.P. Killip Albert C. Smith	19443

Leptogium Homodivium

Panama Canal Zone: Barro Colorado Is.	20-75 m	G.W. Martin	4022
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Leptogium Coralloideum

Mexico, Orizaba	—	F. Müller	—
Venezuela, Mérida	—	C. Prodriguez	153
Heredia: Santo Domingo Del Roble	1600 m	V.F. Garger	10521
Tuensas: S. Pedro (sterile)	1200 m	S. Pedro	16136
Alojuela: Las Fraigones	1500-1700 m	P.C. Standley R. Torres	47420
Puntarenas: Rio Terrones	1-10 m	C.W. Dodge, V.F. Garger	10322
San José: Rio Paquita	1-3 m	Dodge, V.F. Garger	9723
Puntarenas: Rio Sandala	1-10 m	" "	10194
Cartago: La Carpintera	—	Dodge	3972
Panama: Hills between Capira and Potrero	80-130	Dodge, A.A. Hunter	8956
Panama: Rio Indio Hydrographic Sta.	—	Dodge and P.H. Allen	8912
Columbia: Dept. Antioquia, Medellín	—	W.A. Archer	660

NEW ENGLAND BOTANICAL CLUB

Leptogium coralloideum (Cont.?)

Columbia, Cordillera:	Dept Santander	2500-2600m	E.P. Killip Albert C. Smith	19292
Peru:	Dept Ayacucho - Aina	750-1000m	Killip Smith	2258
Brazil:	Porto Alegre, Rio Grande do Sul	—	Baldwin, Pank	108
Guatemala:	near Tilarán	500-650m	Standley, Valerio	—
"	: H. Santamaria	680-780m	Dodge, W.S. Thomas	8018
"	: South of Liberia	100m	Dodge, Thomas	6599
"	: near H. Santamaria	640-680m	" "	7995
"	: Northwest of Tilarán	500-690m	" "	6563
Puntarenas:	near Corozal	5-50m	C.W. Dodge	8025
Cartago:	Rio Birris	1220-1340	Dodge, W.S. Thomas	7994
Heredia:	above Santo Domingo del Roble	1600m	V.F. Geiger	10517
Cartago:	Santiago	1140-1180m	C.W. Dodge	8000
Puntarenas:	Rio Sandalo	1-10m	Dodge, V.F. Geiger	10512
San Jose:	Rio Virilla	—	Dodge	7787
De La Palma a la Honduras:		1500-1700m	Mapou, Harvey	7891
Heredia:	above Santo Domingo del Roble	1600m	V.F. Geiger	10583
Panama:	near Alahueta	90-100m	Dodge, Steyermark P.H. Allen	8958
Limón:	Fincas Siam	—	Dodge, V.F. Geiger	9589
San Jose:	near Zapote	1200m	Standley	40273

NEW ENGLAND BOTANICAL CLUB

Leptogium Coralloideum (Const.)

- Cartago: Rio Birria 1220-1340m Dodge, W.S. Thomas 4632
- " : Carpintera 1700m Danielson 101
- Alajuela: La Palma de San Ramon 1250m A.M. Brenes 91
- San Jose: Rio Paqueta 1-3m Dodge, Goerger 9713
- Heredia: Santo Domingo Del Roble 1600m V.F. Goerger 10567
- Guanacaste: H. Santamaria 680-780m Dodge, Thomas 6796
- Puntarenas: Rio Sandalo 1-10m Dodge, Goerger 10424
- Guanacaste: H. Santamaria 640-680m " Thomas 8002
- Puntarenas: Rio Sandalo 1-10m Dodge, Goerger 10419
- " : Rio Terrones 1-10m " " 10348
- Guanacaste: Tilaran 500-650m Studley + Valerio 44803
- San Jose: between Rio Paqueta and Rio Viejo — Dodge, V.F. Goerger 9728
- Heredia: Santo Domingo Del Roble 1600m V.F. Goerger 10490
- Guanacaste: near Tilaran 500-690m Dodge, W.S. Thomas 6562
- Heredia: Santo Domingo del Roble 1600m V.F. Goerger 10489
- Puntarenas: near Corozal 5-50m Dodge 7529

Leptogium Leptogopsis

- Guanacaste: H. Santamaria 640-680m Dodge 8032
W.S. Thomas

NEW ENGLAND BOTANICAL CLUB

Leptogium Coralloideum (Cout.)

- Alajuela: ~~near Fraijanes 1500-1700m~~
Viento fresco 1600-1900m Standley, Torres 47771
- " : Santiago de San Ramón 1000m A. M. Brenes
- " : between Desamparados and Alajuela 920-980 Dodge
J. Valerio 7999
- Brazil: Azuleira Matagrosso — G. A. Malme 2541894
- San Jose: north of Turricares. 540-600m Dodge, W. S. Thomas 7481
- Puntarenas: Rio Sandalo . . . 1-10m Dodge, V. F. Goerger 10339
- Alajuela: Rio Ciruela . . . 920-980m Dodge, J. Valerio 7921
- " : Santiago de San Ramón 1000m A. M. Brenes —
- Fuenfrescos: ————— S. Pedro —————
- Brazil: Porto Alegre, Rio Grande do Sul — B. Rawls 25
- " : Serra dos Palos Cruz Alta — Det. Malme 21 ~~18~~ 893
- Columbia: Dept. Santander (sterile) 2500-2700m Killip, A. C. Smith 1899a
- " " " 2000-2600m " " 19334
- Peru: Dept. Ayacucho 750-1000m " " 22532
- " " " 750-1000m " " 22570
- Chile Corral Chile ————— R. Thaxter
- Peru: Dept. Ayacucho ————— Killip and Smith
- Costa Rica: Santiago 1140-1180m C. W. Dodge 8001
- Heredia: above Santo Domingo Del Roble 1600m V. F. Goerger 10597

NEW ENGLAND BOTANICAL CLUB

Leptogium stipitatum

Fuencs: _____ S. Pedro _____

Leptogium Mallotium

Heredia: Santo Domingo Del Roble 1600m Dodge, V.F. Gouger 9640

Chile: _____ R. Thase(?) _____
" : Porto Anas Magellanus _____

" " " _____

" " " _____ R. Thaxter _____

Heredia: Santa Domingo Del Roble 1600m Dodge, V.F. Gouger 9672

Leptogium Papillosum

San Jose: Finca Guayabillos 2250m " " 9689

~~" : Santa Maria de Dota 1500-1800m F.C. Standley 406~~

Leptogium Soturninum

Peru: Motucana 8000 feet George S. Bryan 68

Leptogium Menziesii

Peru: Muna 7000 feet " " 498

" : Mito 9000 feet Mc. Bride, Featherstone 1913

" : Cuzco 11000 feet C. Bras. 921

" " 6000-9000 feet " " 1520

" : Motucana 8000 feet George S. Bryan 75

NEW ENGLAND BOTANICAL CLUB

Leptogium implexum

San Jose: Sta. Maria de Dota	1800 m	P.C. Standley	42899
" " : Cerro de las Vueltas	2900-3000 m	P.C. Standley J. Valerio	43823a
Cartago: near Finca del Volcán de Turrialba	2000-2800 m	P.C. Standley	35174
Columbia: Dept. Santander	3800-4100 m	E.P. Killip	
Peru: Mito	9000 feet	Albert Smith	1859d
" : Cuzco	1700 m	Geo. S. Bryan	286
San Jose: Zargui	2000-2500 m	C. Bues	1589

Leptogium implicium

San Jose: near Finca Santana	—	Dodge, W.F. Geyer	10455
Fauces: S. Pedro	1200 m	—	—
" " "	1200 m	—	—
Uruguay: Dept. Treinta y Tres	20 m	W.G. Hertel	88810
Guatemala: near Liberia	100 m	Dodge, A. Alfaro, W.S. Thomas	6586
" : near H. Santamaría	640-680 m	Dodge, W.S. Thomas	8027
" " " "	640-680 m	" "	—
San Jose: Rio Paqueta	1-3 m	Dodge, W.F. Geyer	9680
Alojuela: along Rio Aranda	920-980 m	Dodge, J. Valerio	4894
Columbia: Dept. Santander	3000 m	Killip, A.C. Smith	19543

NEW ENGLAND BOTANICAL CLUB

Leptogium Pichneum

Simon: Finca Castilla	30m	Dodge, V.F. Berger	10595
" " "	30m	" " "	10595
" " "	30m	" " "	9371

Paraguay: Colonia Riso — D. A. Malme 1325

Puntarenas: above Quebrada Juaca 10-30m Dodge, V.F. Berger 10284

Brazil: Porto Alegre, Rio Grande to Sul — B. Rombo 14

Leptogium Margnellum

Simon: near Finca Castilla 30m Dodge, V.F. Berger 9356

San Jose: between Rio Paqueta and Rio Vajo — " " 9786

Panama: Los Cascados — Dodge, A.A. Hunter 8622

Ayuda: San Pedro de Ramon 700m Albert M. Brenes —

Puntarenas: Rio Terrones 1-10m Dodge, V.F. Berger 10327

" : Rio Sumbalo 1-10m " " 10538

Panama: road between Panama + Chepo — Dodge, A.A. Hunter, J.A. Steyermark, P.H. Allen 8663

" : between Capira + Ptero 80-130m Dodge, A.A. Hunter 8957

Zapagos Islands: Indefatigable Is — H. K. Ineson 2306

Brazil: Sta. Catharina — J. Riche —

" : Rio de Janeiro — D. A. Malme 1696

NEW ENGLAND BOTANICAL CLUB

Lept. Merguellum (Cont.)

San Juan: Bethania	—	N.L. Britton, J.A. Shaper	276
San Jose:	1000-1100 m	Dodge	4305
Cartago: near Sta. F. V. de Turrialba	2000-2400 m	P.C. Standley	3486
" : Rio Birris	1220-1340	Dodge, W.S. Thomas	8020
" " "	1220-1340	" "	7971
Guancaste: Dodge , H. Santamaria	680-780 m	" "	6901
" : near Tilaran	500-600 m	Standley, Valerio	44430
Uruguay: Maldonado	100-400 m	Dodge	7281

Leptogium Vesiculosum

Puntarenas: R. Senoialo	1-10 m	Dodge, W.F. Berger	10536
Heredia: Santo Domingo del Roble	1600 m	W.F. Berger	10501
" " " " "	1600 m	Dodge	10447
Panama: near Vigia on San Juan	66 m	Dodge, Steyermark	8554
" : between Panama and Chepo	—	" " " Hunter	8578
Columbia: Dept. Santander	2500-2600 m	Killip, Smith	19292
" : Colegio de Ntra. de los Andes	—	Ayres	54
Peru: Dept. Ayacucho	1500 m	Killip, Smith	22400
" " "	750-1000 m	" "	22532

NEW ENGLAND BOTANICAL CLUB

Leptogium Foveolatum

Panama: Rio Indio	70-80m	Dodge, P.H. Allen	8855
" : between Boquete and El Valle	2000-2200m	Gill. Martin	9240
" : along banks of Quebrada La Palma	70-80m	Dodge, P.H. Allen	8961
Peru: Dept. Ayacucho:	750-1000m	Killip, A.C. Smith	22575
San Jose: between Rio Paguita + Rio Viejo	—	Dodge, V.F. Coe	10533

Leptogium Microstictum

Palenque	—	Liebmann	7428
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Leptogium Olivaceum

Panama: Rio Indio	70-80m	Dodge, P.H. Allen	8960
San Jose: Rio Verilla	—	Dodge	8030

Leptogium Denticulatum

La. New Orleans	—	Dodge	
British Honduras: Punta Gorda	—	V.V. White	1
Cartago: Cerro Carpintera	1350-1500	Dodge, V.F. Coe	10511
San Jose: between Rio Paguita + R. Viejo	—	" "	9818
" : Finca Guayabillas	2250m	" "	10710
Limon: Finca Castilla	30m	Dodge, V.F. Coe	9183
Veracruz: Santo Domingo del Roble	1600m	Dodge, V.F. Coe	9588
" " " " "	1600m	V.F. Coe	10539
" " " " "	1600m	Dodge	9606

NEW ENGLAND BOTANICAL CLUB

Leptogium Denticulatum (Cont.)

Puntarenas: R. Terrones	1-10m	Dodge, V.F. Goerger	10316
" " " "	1-10m	" "	10330
Panama: Rio Indio	—	J.A. Steyermark, P.H. Allen	8901
" : Cerro Colorado Island	120m	P.C. Standley	40803
" " " "	—	Dodge	3769
" " " "	—	"	3890
Guatemala: Dept. Izabal	15-225m	P.C. Standley	2446P
<u>Leptogium Austroamericanum</u>			
San Jose: between R. Paquita & R. Viejo	—	Dodge, V.F. Goerger	9798
" " R. Paquita	1-3m	" "	9731
" " " "	5-50m	" "	9833
" " between R. Paquita & R. Viejo	—	" "	9797
Heredia: Santa Dominga del Roble	1600m	" "	9589
" " " " " "	1600m	Dodge	10671
" " " " " "	1600m	Dodge, Goerger	9678
Puntarenas: Rio Jambalo	1-10m	" "	10402
" " " "	1-10m	" "	10679
Panama: Colon, Tumbon Viejo	90-400m	Dodge	8689
" : Quebrada Bonita	70-80m	Dodge, P.H. Allen	8815

NEW ENGLAND BOTANICAL CLUB

Lept. Austroamericanum (Cont.?)

Panama: Quebrada La Palma	70-80 m	Dodge, P.H. Allen	8889
" : Quebrada Ancha	70 m	Dodge, J.A. Steyermark	8963
" Quebrada La Palma	70-80 m	Dodge, P.H. Allen	8891
" near Vigia and San Juan	66 m	Dodge, Steyermark, Allen	8549
" Quebrada Bonita	70-80 m	Dodge, P.H. Allen	8887
" Quebrada Fea	70-100 m	Dodge, P.H. Allen	8895
" R. Indio	70-80 m	" "	8849
" between Panama + Chepo	—	Dodge, Hunter	8967
" Quebrada Tranquilla	70-80 m	Steyermark, Allen	
" R. Indio	70-100 m	Dodge, Allen	8885
" R. Indio	70-100 m	" "	8937
" R. Indio	70- 100 80 m	" "	8856
" "	—	" "	

Galapagos Islands: Indefatigable Is. 2000 feet H.K. Jenson 2029

Columbia: Colegio de Ntra. Senora de los Andes — Azael 63

Leptogium Azureum

Cuba: Monte Verde	—	C. Wright	14
British Honduras: Cockscumb mts.	—	W.A. Schuyler	5118
Nicaragua: Greytown	—	C. Wright	—

NEW ENGLAND BOTANICAL CLUB

Leptogium azureum (Cont.)

Simon: Finca Castilla	30m	Dodge, V.F. Berger	9300
" " "	30m	" "	9159
" " "	30m	" "	9365
" Livingston Farm	80-100m	Dodge, Geo. Catt, Thomas	5573
" Castilla Farm	20m	Dodge, Neumann	9209
" Guaspiles	300-500m	P.C. Standley	39137
Turialva	—	A.S. Oversted	—
San Jose: Rio Paquita	1-3m	C.W. Dodge, V.F. Berger	9753
" " " "	1-3m	" "	9758
" " " "	—	" "	9792
Cartago La Carpintera	—	Dodge	3987
Isla Coco	—	Judgrass	—
Fuenfues: S. Pedro	1200m	Heller	—
Puntarenas: R. Sandalo	1-10m	Dodge, V.F. Berger	9944
Simon: Finca Homburg	25m	" "	9545
Puntarenas: Rio Sandalo	1-10m	" "	10546
" " "	1-10m	" "	10044

NEW ENGLAND BOTANICAL CLUB

Leptogium Guseum (cont.)

Panama: Barro Colorado Is.	—	Dodge	3805
" " " "	—	"	3734
" " " "	—	"	3853
" " " "	—	Dodge, C.E. Woodworth	3838
" Quebrada Avelina	70-75m	Dodge, Allen	8801
" United Fruit Co. Farm 6	—	Dodge, V.L. Permar	4131
" Tumba Vieja	90-200m	Dodge, Steyermark	8777
" Quebrada Tranquilla	70-80m	P.H. Allen	8884
" R. Indio	—	Dodge, Allen	8850
" near Chepo	—	Jorge Borden	10588
Columbia: Dept. Santander	—	Killip, A.C. Smith	18840a
" " "	3300-3600m	" "	17804
" " "	2000-2600m	" "	19328
Peru: Dept. Loreto	100m	G. Kley	830a
Brazil: Sta. Catharina	—	J. Rick	—
Brazil: São Paulo	—	L.B. Smith, M. Kuhlmann	No. C 1097
" " "	0-50m	L. B. Smith	No. C 1137
" Rio Grande do Sul	—	J. Rick	—

NEW ENGLAND BOTANICAL CLUB

Leptogium azureum (cont.)

Corral, Chile

R. Thaxter
A.W.P.

6645

32

Uruguay: ¹Trenta y Treas ⁴Zona
Leptogium

"
Dodge

FR813

Danby-Pawletline

Dodge, P.H. Snyder

707

Vermont, Selis - east of Lake St. Pierre

Dodge

Minn. Kettle Falls

B.F.

Leptogium tremellaoides

Vermont, Pawlet

Dodge

" : Danby, Beecherbrook

Dodge

1851

Being Lake City

B.F.

Leptogium chloromelum

Nicaragua: Greytown

C.Wright

Leptogium tuckermanni

Peru: Dept. Ayacucho

1000m

Killip, Smith

22505

" " "

3200m

"

"

23260

" " "

750-1000m

"

"

22788

Cuba: Monte Verde

—

C.Wright

15

Jamaica: Catherine Peak

3000'

V.H. Faulk

—

Columbia: Dept. Santander

2000-2600m

Killip

A.C. Smith

19332

NEW ENGLAND BOTANICAL CLUB

Leptogium Tuckerianum (cont.)

San Jose: Finca Guagabillos	2250m	Dodge, V.F. Gaezger	10569
Cartago: C. Carpiutera	1350-1500m	" "	10534
Pacuterenas: Rio Terrones	1-10m	Dodge, Gaezger	10324
Meredia: Santo Domingo del Realito	1600m	Dodge	10686
" : " " " "	1600m	V.F. Gaezger	10505
" " " " " "	1600m	"	10492
" " " " " "	1600m	"	10513
Panama: Balboa	—	Dodge, Hunter, Steyermark	8669
" : R. Indio	70-80m	Allen	8851
		Dodge, Allen	8851

Leptogium Agrellum

Rapa Is: Mt. Ruatara	80m	F.R. Fosberg	—
Mangareva Is:	180m	H. St. John	14518
Austral Islands: Rairivavae, Pic Rouge	60m	H. St. John, Fosberg	15977
Rapa: Mt. Ruatara	80m	F.R. Fosberg	11459a
Lanai:	—	C.N. Forbes	4192

Leptogium Brebissonii

Brazil: Mata Grossa	—	D.B. Malme	2645
Sept. Chloromelium	—		
Brazil: Mata Grossa	—	D.B. Malme	2491

NEW ENGLAND BOTANICAL CLUB

Leptogium Crispulum

Pitcairn Is.: Parlor Valley Ridge 250m H. St. John 14988

Rapa: Ahurei Bay 5m F.R. Fosberg, E.C. Zimmerman 14051

Mani: Honokahau Drainage Basin — C. V. Forbes 52511

Lept. Cyanescens

Quebec: St. Anne — Ernest Lepage 121

Lept. Dinortens

Philippine Islands: Luzon — A. D. E. Elmer 15106

" " " " — " " 15106a

Lept. Dimorphum

Jamaica: Newcastle to Hardune Gap — A. M. Evans 1167

Lept.

Haiti: Mt. Pailborsau 3000 feet W. S. Thomas 45a

Lept. Javanicum

Mangareva Islands: Akamaru Is 10m H. St. John 14929

Lept. Juniperinum

Tenn. Lookout Mt. — Collins 49

Venezia: Puerto Domingo del Roble 1600m Dodge 10642

Lept. Salveus

San Jose: Finca Guayabillos 2250m Dodge, Geiger ~~225~~
10531

NEW ENGLAND BOTANICAL CLUB

Lept. Euleptogium

Kauai: ————— C. N. Forbes 1458K
 " ————— " 1233K
 Maui: Honokahau Drainage Basin — " 516M

Lept. Moluccanum

Oahu ————— " 1883.0
 Rapah: Mt. Ruatara 80m F.R. Fosberg 11459
 " " " 80m

Lept. Tremelloides

Brazil: Poço Negro, Rio Grande do Sul — Baldwin Rambo 104

Lept. Pulchellum

Tenn. Lookout Mt. — W.W. Atkins 49
 Ok. Rich Mt. — R.E. Woodson

Lept. Tremelloides

Costa Rica: Turrialva — A.S. Hersted
 San Jose 1130m P.C. Standley 41233
 Cartago: Orosi — " 3979i
 San Jose: La Hondura 1300-1700m " 3787o

NEW ENGLAND BOTANICAL CLUB

Lept. Standleyi

Santo Domingo: Hato Mayor	200 ft.	W. S. Thomas	31
Panama: R. Chagres	66m	Stegemark, Ellen	8697
" : Quebrada Bonita	70-80m	Dodge, P. Allen	8959
Heresia: Chahuites	1900m	Goerger	10633
Cortago: C. Carpintera	1350-1500m	Dodge	10553
San Jose: finca Guayabillos	2250m	Goerger	
		Dodge Goerger	10498
Corral Chile:	—	R. Chaptes	6647
Chile Concepcion	—	"	6646
Columbia: Colegio de Ntra. Senora de los Andes	—	—	63

Lept. Subheteromerica

Maui: Honokahau Drainage Basin	—	C. N. Forbes	530M
" " " "	—	"	529M

Lept. Tremelloides

S. Spruce: Simontown	—	C. Wright	3.10.3
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OBSERVATIONS ON TROPICAL AMERICAN AND OTHER LICHENS. I.

CARROLL W. DODGE

Mycologist and Professor in the Henry Shaw School of Botany of
Washington University

In connection with my lichen flora of Costa Rica¹

¹ Dodge, C.W. The foliose and fruticose lichens of Costa Rica [I].

Ann. Mo. Bot. Gard. : - . 1 map. 193 ; II. Stictaceae and

Peltigeraceae. Ibid. : - . 1939.

I have studied many specimens from other parts of the world, mostly the American tropics. To discuss them adequately in that work would increase its size without greatly increasing its usefulness to the Costa Rican student; therefore it is proposed to include such observations in this series, rather than holding them ^{indefinitely} in manuscript until sufficient have accumulated to justify a monograph of a family or a flora of a region.

Collema

Micronesia & Polynesia Usnea

Euimitria
implicata (Stictis) Marianneots Hawaii
vulvifera Nyl Tahiti

Euusnea

~~Fusata~~ Umpu ~~...~~

~~Articulata~~

~~Baccata~~

~~Setulosa~~

~~Denimosa~~

Uglomerata Mot 315 Hawaii

Udiademensis Vain Tahiti

Rubiginosa

Uspilota Stictis Hawaii

Elongata

Ceratinae

~~Graciles~~

~~Longiss~~

Stramineae

~~Amoenae~~

~~Eustramineae~~

laetabilis Marguraccol

fautauensis Vain Tahiti

indifica Tayl Loyalty Isl.

sociolatis Vain Tahiti

grandis Mot Tahiti

straminea Ma Tahiti Samoa

intercalaris Krmph Fiji Samoa Tahiti

expansansa Mot Loyalty

~~fulcata~~

glabratae

Pycnocladae Mot

Uhawauensis Hawaii

U. sensitiva Mot

Scabridae

Ciliiferae

australis Fr. Hawaii

fuscicornens Mot Tahiti

Xanthopogae

Oszeslencaae

lutea Mot Hawaii

oszeslenca ^{Mot} Hawaii

entoviolata Mot Hawaii

macrocarpa Mot Tahiti

Dendriticae

Cladocarpae

peruinoza Mot Hawaii

Rockii ? Hawaii

altansellata ^{serp...}

Laevigatae

Amabiles

Roccellinae

Born ... U. ompactior

[Faint handwritten notes]

Since the current advertisement (enclosed) outlines the situation in some detail, I shall not attempt to cover it in this letter. However, I believe you will agree that the railroads of this country need the services of "a new and efficient sleeping car operating company that can, and will buy sleeping cars competitively in quantity and service them economically." Otherwise, the average sleeping car passenger will have a slim prospect for a comfortable ride in a car equipped with modern conveniences and improvements.

It has often been demonstrated that the public can have anything it wants -- if it makes its position clear. The public certainly did make its position clear on through sleeping car service and the Black Market in Pullman space.

We hope and believe the public will be equally clear in its demand for modern sleeping cars at reasonable cost for all railroads that need them.

Your newspaper editor, I am sure, will be as interested as I will be in any comments or suggestions that you may care to offer.

Very truly yours,

Robert R. Young

July 12 Anzo de Quime, Bolivia also July 3 13500 ft
Aug 14 Ipurana Bolivia
Sept 9 Couendi 2500 ft Bolivia
Sept 28 Inquisivi 2500 ft Bolivia
Sept 12 Tunupasa 1000-1500 ft Bolivia

FEBRUARY 16 to FEBRUARY 22, 1947

SUNDAY - FEBRUARY 16

4:30 PM STUDENT VESPER SERVICES: Rev. William J. McCracken, Emmanuel Episcopal Church, "The Rock and the Sand" - Graham Memorial Chapel

MONDAY - FEBRUARY 17

9 AM - 5 PM EXHIBITION: "If you Want to Build a House" - Givens Hall Exhibition Gallery (open week days thru March 3)

8 PM LECTURE: Chancellor Compton, "UNESCO Conference"; Sponsored by the A.V.C. - Graham Memorial Chapel

TUESDAY - FEBRUARY 18

4 PM "ENGINEER IN TRAINING" LECTURE: Mr. C. G. Roush, President, Missouri Society of Professional Engineers, "The Engineers' Place in and Responsibilities to Society" - Brown Hall Auditorium

8:15 PM WASHINGTON UNIVERSITY ASSOCIATION LECTURE: Billy Bryant, "Forty Years of Showboating" - Soldan High School. Admission by subscription.

WEDNESDAY - FEBRUARY 19

4 PM PHYSICS DEPARTMENT COLLOQUIUM: Dr. James F. Nolan, "Protective Measures Against Dangerous Radiations" - Crow Hall 101

8:15 PM ILLUSTRATED LECTURE: Dr. Chas. H. Morgan, of Amherst College, "Corinth, City of Aphrodite"; sponsored by the Archaeological Institute of America, St. Louis Society - Givens Hall 116

THURSDAY - FEBRUARY 20

8 PM WASHINGTON UNIVERSITY ALUMNI BIRTHDAY PARTY: Chancellor Compton, Director of Athletics Blair Gullion, Quad Club, the University Chorus; for all Alumni, Students and Faculty - Field House

FRIDAY - FEBRUARY 21

9 PM GOLD-DIGGERS BALL: Sponsored by Mortar Board - Field House; Admission, \$1.25

SATURDAY - FEBRUARY 22

HOLIDAY - Washington's Birthday

COMING EVENTS

February 23 VESPER SERVICES: Commemorating the 94th Anniversary of the Founding of Washington University; Vice Chancellor Charles Belknap - Graham Memorial Chapel; 4:30 PM

February 28 GERMAN REALISM FILM: Showing of one film, 1927 (Silent) - Brown Hall Auditorium; 8:15 PM. Admission by subscription.

Events listed are open to the general public and free of charge, unless the notice indicates otherwise.

Juss. Mary Land Mosses

Ceratodon purpureum (L.) Brid. forma (near *C. grossiretis* Card Bull
Herb Boiss II 6:14.

Sarcocaulon glaciale (Hf. W.) Card + Bryhn Marie Byrd L Victoria
Cockburn I.

Grimmia fastigiata Card Bull Herb Boiss II 5:1003.

" *stolonifera* C. Mull. very close to *Kerguelen* pl but differs...
[*antarctica* Card M Byrd L Graham + vars M B Land

Bryum antarcticum Hf W formae Cockburn I

Bryum antipolare Card M Byrd L Graham L

gerlachii "

filicaule Broth.

[*Inconnexum* Card } probably forms of some sp
[*algens* Card } but not seen from Q Mary L.
[*displei* M Byrd L

Barbula Byrdii M Byrd L.

WASHINGTON UNIVERSITY

December 2, 1942

A meeting of the Faculty of the School of Graduate Studies will be held on Wednesday, December 9, 1942 in room 228, Robert S. Brookings Hall, at 4 o'clock.

To facilitate taking attendance please leave your name with my assistant who will be stationed at the entrance to the room.

G. W. Franke

Secretary

18X1
12.5
18
1000
125
225.

Coeliferous--Str. Minio-flavida
 Podetia typically with cups, crowded granulo- or squamulose K+
 Campbell Island C. subdigitata
 Podetia short, tips with cups or obtuse, ecoriolate, typically
 squamulose, K-
 Thallus of elongate squamulae, Reunion C. insignis
 Thallus of smaller squamulae, podetia yellow or yellow
 effuscent, Australia C. firma

Ochrophaneae

Unciales

Podetia scripocollucid between scattered verruculae
 Reunion C. peltata
 Podetia imbricoid
 Chondroid axis well developed, without cups, dichotomous,
 cortex subcontinuous or areolate dispersed, axils
 closed
 Spermatogonial cell hyaline, axils closed
 C. medusina
 Spermatogonial cell red
 Primary thallus persistent, podetia 0.7-1.0 mm
 thick, lower axils perforate, upper closed
 C. capitellata *interhasam*
 Primary thallus evanescent, podetia scarcely 0.5 mm
 axils closed C. manthoclada
 Chondroid axis lacking, obsolete scyphiferous, corticate
 Reunion C. candelabrum

Chasmariae--Microphyllae, axils open

K yellow

Podetia squamose or atypically and sparingly squamulose,
 ascyphous, polychotomous or more or less dichotomous
 C. subsubulata
 Podetia squamose, rarely only granulo-decorticate, partly
 scyphiferous
 Primary squamula small, evanescent
 C. subsquamosa
 v. *fulvopallida*
 v. *philophora* *Thyl.*
 Primary squamula thick with broad lobes
 C. rigida

K-

Neither axils nor tips dilated open, podetia short
 C. schisopora
 Axils or tips dilated, open decorticate
 C. squamosa
granulose decorticate scyphiferous almost squamulose gracilentata
not granulose ascyphous tips gradually attenuate sarmentosa
squamose + squamulose

Clasae

Polystelidae

Helopodium

Podetia corticate
 Chondroid axis ^{not} fibrous whole or moderately lacinate,
 cavity K irregularly subsuscescent, branched,
 cortex verruculose, almost squamulose
 C. intermediella
 Chondroid axis lacinate and fibrous *Ev*
 Partly sterile more or less squamulose, irregularly
 branched, K slight yellow *C. prozelandica*
 Podetia terminated by apothecia, squamulose, simple
 or fastigiately branched, K- C. enantia

while his figure of the cross-section of a cephalodium suggests the cerebriform type.

Zhalbruckner tried to reconcile the literature without a critical study of material of either species, resulting in misstatements such as citing A. megalospora from Kerguelen rather than from Campbell Island and stating that the eight small spores coalesce to form a degenerate brown mass.

Fortunately the type of Stereocaulon Argus Tavl. and a duplicate of the type collection of S. cymosum Crombie are present and fruiting in the Taylor Herbarium at the Boston Society of Natural History. The former specimen agrees with Th. Fries' description of Argopsis, the second with the description of A. Friesiana Müll. Arg. Both are similar in podetial characters and cephalodia to Stereocaulon ramulosum. S. Argus has a hyaline parathecium and hypothecium, asci apparently not more than 2-spored, of which one early degenerates, leaving a single large muriform spore very similar to those of Lopadium, remaining hyaline until late, then becoming slightly yellowish brown, not the deep brown muriform spore of Rhizocarpon. S. cymosum has a brownish parathecium (not carbonaceous in the apothecium sectioned), asci 4-8-spored; ascospores with three transverse septa and an occasional longitudinal or oblique septum, producing a few-celled muriform spore similar to those in Collema sect. Blennthallia. Were it not for the extreme form of S. Argus, there is little to distinguish S. cymosum from Stereocaulon where the sterile material was referred. Until more information is available, it is largely a matter of individual opinion whether the generic limits should be circumscribed to include only S. Argus or enlarged to include S. cymosum. I have adopted the latter course. Both species seem to be endemic to small areas, but it is possible that they have been referred to some variety of S. ramulosum

125
14
500
125
175

Podetia decorticate, othonia concolorata, K. allo.
 Podetia squamulose or isidioid squamulose or granulose
 coradiate C. squamulosa
 Podetia granulose to isidioid squamulose
 C. elegantula

Tbdööstéíídes

Not proliferating from center of cups
 Podetia elongate corticate
 Podetia sparsely granulose variegate
 C. gracilis
 C. ampullifera
 Podetia coradiate above, cortex subcontinuous
 subarcolate C. cornuta
 C. gracilentior

Podetia colutinae at
 base. *Tomentosa*
 between areoles possibly
 C. degenerans

Podetia short when corticate or decorticate coradiose
 Podetia scyphiferous, cups commonly broad and
 dilated from the lower part of podetia, corticate
 toward the base short, ~~wholly~~ squamulose
 grossly granulose soredios C. pyxidata

Podetia semipellucid v. costata
 Podetia impellucid v. chloro haqa

Primary thallus of thicker squamules, podetia long or
 short, with or without cups, medium or a foot abruptly
 dilated from upper part of podetia, wholly decorticate
 squamulose or rarely lower part corticate, walls
 moderately thickened. C. fimbriata

Podetia impellucid *reflexa simplex*
 K yellowing, short or moderate, scyphiferous or
 minutely scyphiferous, granulose with isidioid
 squamules and squamulose, wholly decorticate or
 slightly corticate at base v. Borbonica

K- Podetia scyphous, tips quite narrowly subulate
 decorticate dispersed, coradiose, squamules
 isidioid and squamulose with granulate margin
 squamose at base; v. subspeciosa

Podetia semipellucid, wholly decorticate and coradiose
 or soredia finally disappearing, without
 squamules or with squamulose base
 v. clonoidica

Scyphiferous, proliferous c. chlorophloeoides
 sub simple
 proliferous

Primary squam of thinner squam

Sterile proliferations, scyphiferous
 f. subprolifera
 sterile proliferations scyphous or some
 abortive scyphiferous

*Primary squam large podetia 10-15mm
 cups medium to quite large verruculose
 corticate a little translucent subequanous
 or tip crowded squamose ap whitish flesh
 color. - C. leucocapala*

Ascyphous, wholly decorticate and coradiose, soredia
 small or isidioid connate finally dis-
 appearing v. Balfourii

Proliferating from center of cup, decorticate, partly verruculose
 corticate

Primary squamule large, thick, podetia 25-30mm with few large
 squamules C. centrophora

Primary squamule smaller, podetia 35-80mm perhaps also 20-30mm

None or large squamulose

Ochroleuca, podetia ± sorediose short 3-15mm ascyphous simple - C. bacilliformis
 C. gymnopoda

without microscopic examination in other herbaria.

Argopsis Argus (Hook. f. & Tayl.) Dodge, comb. nov.

Stereocaulon Argus Hook. f. & Tayl., London Jour. Bot. 3:653. 1844;
Cryptog. Antarct. 84. 1845; Fl. Antarct. : . 184

Argopsis megalospora Th. Fr., Nova Acta R. Soc. Sci. Upsal. III.
2:325. 1858.

Type: Campbell Island, on rocks on mountains, J. D. Hooker (Voy. Erebus & Terror in Taylor Herb. at Boston Soc. Nat. Hist. Type of A. megalospora based on a duplicate of this collection in Upsala.

The sheet marked "Stereocaulon Argus Tavl." contains four plants glued to the sheet. When they were studied by Müller Argau in 1887, he lettered the plants "a" and "b" and annotated the sheet: a. Argopsis megalospora Th. Fr.; b. Stereocaulon ramulosum v. macrocarpum Bab. Nyl.

The following description is based on the two individuals marked a by Müller Argau. The confusion is not surprising as the specimens resemble each other very closely in macroscopic characters, having the same type of branching and phyllocladia. The primary branches of Argopsis are somewhat flattened, the cephalodia are much less conspicuous and darker in colour, the exciple is verrucose and the disc tends to remain flatter: all characters which would have been considered trivial in Taylor's time. Taylor, however, mentions all these characters in his description although all his specimens do not show them.

Thallus 4-5 cm. tall, branching near the base, closely dichotomous, appearing sympodial, base 2.5 mm in diameter, somewhat flattened and obscurely striate sulcate longitudinally; decorticate, smooth, secondary branches more terete, verrucose, the verrucae passing into short, terete obtuse phyllocladia, cortex dull and peeling off, leaving a slightly tomentose surface; cephalodia not abundant, small, cerebriform, of the Stereocaulon ramulosum type.

Del non Krmp. Bourbon
C Boyana for pl of S hemisphere sempellucid waxy.

Scyphiferus

- 1 chondroidea S Afr.
- 2 chlorophaeoides S Amer + Fuegia.

2a subprolifera Brazil Cuba Bermuda cups prolif.

3 subradiata NZ + (Brazil Minas)

4 f minor St Paul ~~habescens~~ Bermuda

5 costata Cromb non Flce Kerguelen

~~intermedia~~ Del similar Boyana but smaller Borbonica

2. Boyana Capelloni + Nicaragua

Ascypha

Balfourii Rodriguez

cornigera R de Jensen.

ochroleuca Minas

ustulata Falklands

acuta Islands of Pacific

imperfurata Tasmania impellucid! perhaps borbonica

tenella West Afr.

Boyana Krmp. Hawaii

Borbonica not clearly sempellucid.

subspeciosa NZ + Chile ascyph.

recta NZ

macella NZ

1894
C Boyana Del Ap Wain ~~1894~~ ~~1894~~

C Boyana Nyl ap Wain ~~1894~~ ~~1894~~

chondroidea S Afr 1894

intermedia Bourbon 1894

costata Cromb Kerg 1876 non stat 1849

f. minor Krmp. 1870 non Hag.

subradiata NZ 1894

chlorophaeoides 1887 non and 1894 Tierra del Fuco.

subprolifera 1894 Japan

hebescens 1877. Bermuda

Borbonica v. Boyana 1877

W A S H I N G T O N U N I V E R S I T Y

Office of the Dean
College of Liberal Arts

November 11, 1942.

TO ALL MEMBERS OF THE CORPS OF INSTRUCTION
COLLEGE OF LIBERAL ARTS

Representatives of the Joint Army-Navy-Marine Corps-Coast Guard College Procurement Committee will be on our campus on Monday, Tuesday, and Wednesday, November 16, 17, and 18, to discuss with men students the provisions of the College Enlistment Plans.

On Monday morning, November 16, all men students on the campus will be required to attend assemblies in Brown Hall Auditorium in accordance with the following schedule:

9:00 a.m. - College of Liberal Arts and University College

10:00 a.m. - School of Business and Public Administration,
School of Law, and School of Fine Arts

11:00 a.m. - Schools of Engineering and Architecture

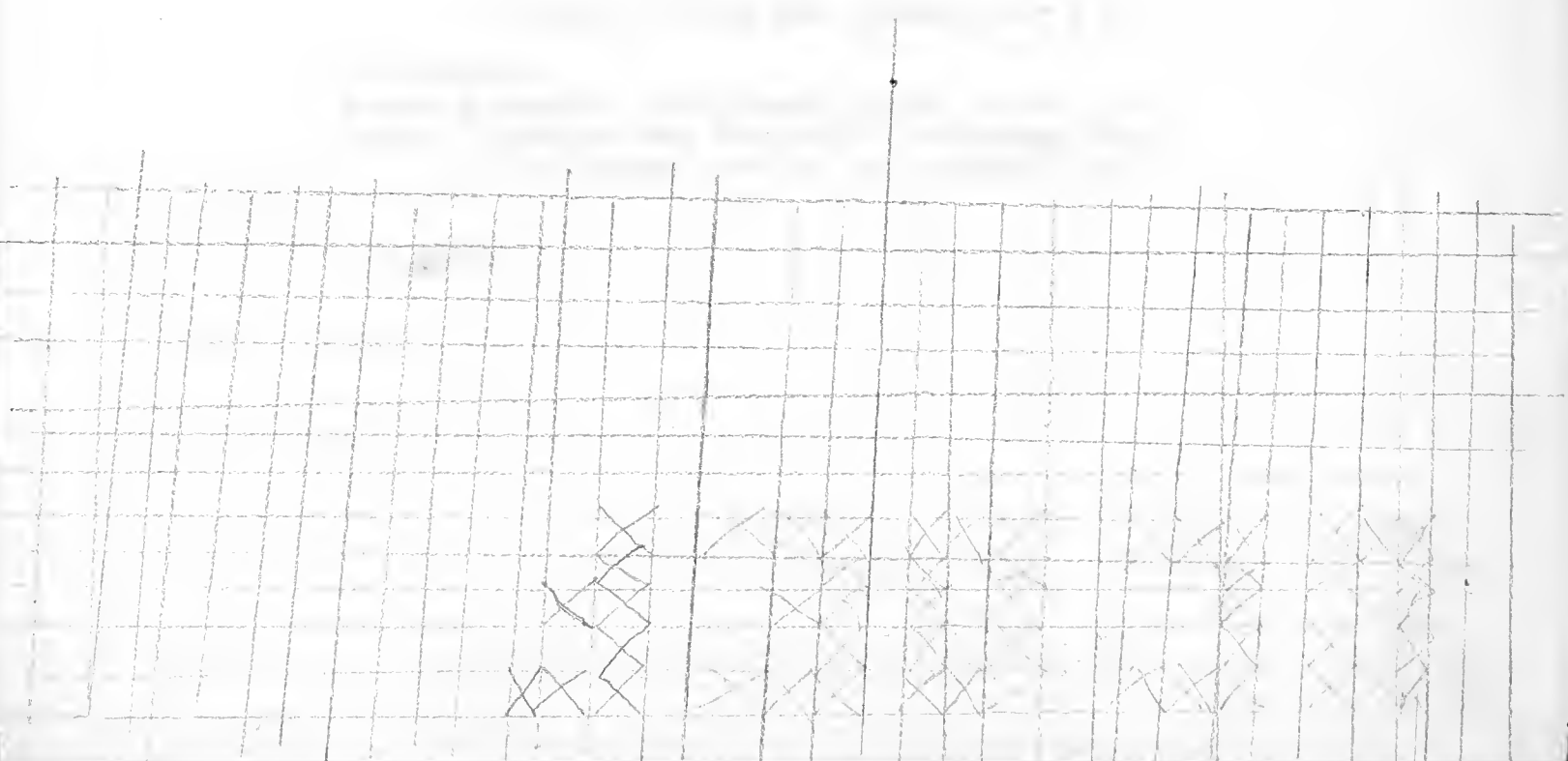
On Monday morning, November 16, all women in nine o'clock classes in the College of Liberal Arts and in University College will meet in the Court Room in January Hall. Dean Starbird will discuss the conference held at Northwestern University, on November 13 and 14, for the purpose of formulating training programs that will best fit college women for participation in our war effort.

Very sincerely yours,

Wm. Glasgow Bowling
Wm. Glasgow Bowling,
Dean.

Thallus primarius ^{persistent aut} ~~demum evanescens~~
 ochrochlora ^{chondroidea}

	ochrochlora	chondroidea
Perithe	2-12 mm	1-4
costae	160-300	130-200
medullae	30-40	30-40 by 5-6
hyphae	3-4	2-5
Podetia	2-4 (5-5.5) mm	5-60
wall	0.5-4	
costae	100-400 μ	160-300
	20-30	
med	2.5-4	
	indistinct	
axis	60-100	160-300
	indist	
apoth	1.8-4 mm	1-4 mm
Hypoth	pale	pale
thecium	40-50	40-45
Paraph	1.5-1.5 μ	1-1.5 μ
	up clavate	up clavate
Asci		8-10
Spores	3-15	8-12
	2.5-4	3-4
Spermat	ovoid conoid	ovoid conoid
spherules	2-20-280	170-380
spermatia	15-25	15-20
	6-8 μ	4-6 (-8)
	0.5-1	0.5



pyr neglecta
 Prim th $\frac{2-5(-8) \text{ mm}}{240-320 \mu}$
 cortex (40-) 50-60
 medhyph 2-5
 Podetial esorediate
 cups
 stripes
 undercup
 apothecia .

chlorophaea
 $\frac{(2-)4-7(-15) \text{ mm}}{250-360}$
 (30-)40-60
 4-5

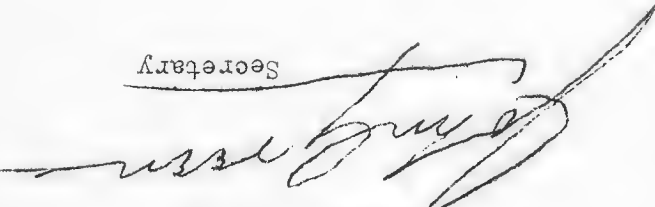
pocillum fimbriatplex prolifera
 $\frac{2-13 \text{ mm}}{500-600 \mu}$
 40-60
 5-6

granulose
 sorediate above

esorediate $\frac{3-35 \text{ mm}}{(2-7)4-(1-9) \text{ mm}}$
 0.5-3
 sorediate

ped 2-12 mm

Secretary



Sincerely yours,

Thanking you for your co-operation, I am,

The American Board of Ophthalmology would
 greatly appreciate your publishing the enclosed notice
 in one or several future issues listing the Board's
 examinations.

Dear Doctor:

OFFICE OF THE SECRETARY
 ROOM 1002, BEAUMONT MEDICAL BUILDING
 3720 WASHINGTON BOULEVARD
 ST. LOUIS, MISSOURI

American Board of Ophthalmology