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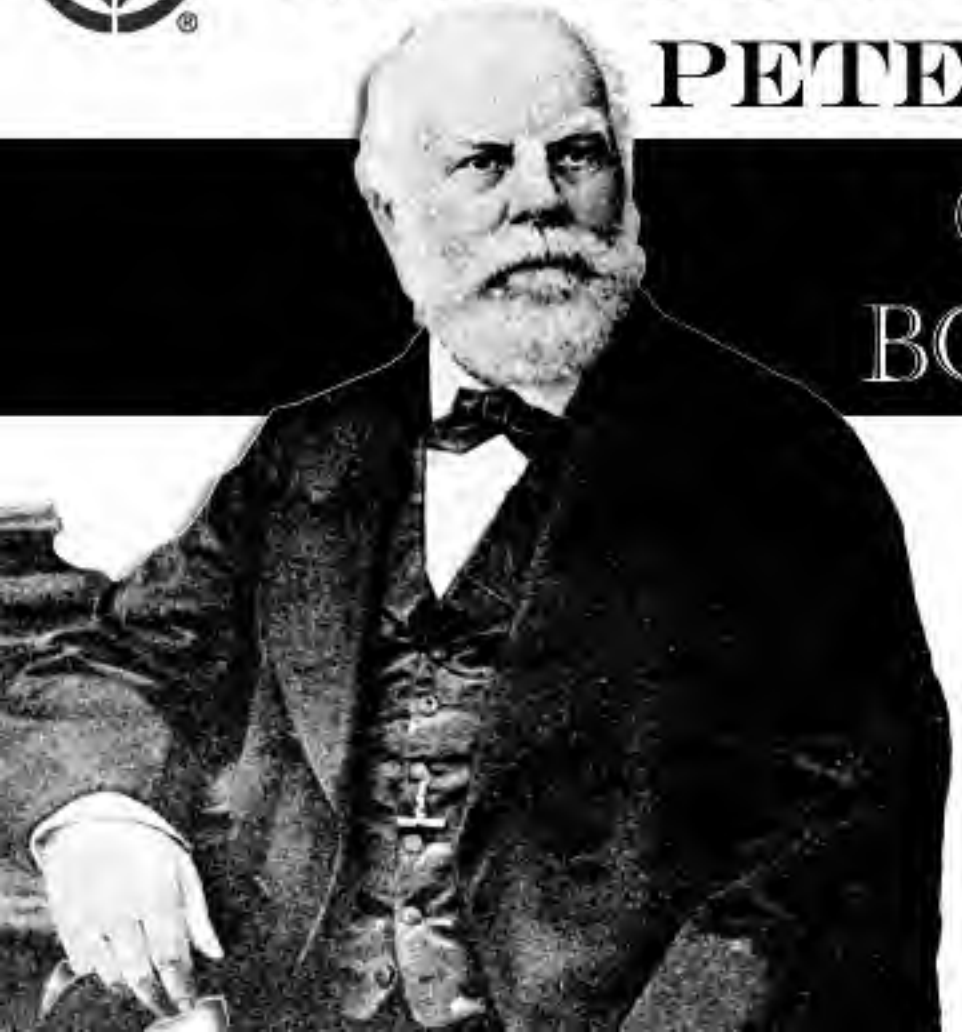
George Engelmann Botanical Notebooks



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About Auburn, Cal Nov 19th 1880 Quercus Douglasii and Kelloggii were yellowish, the latter most so but Q. Wislizeni and Chrysolepis showed no change of colour

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Quercus pungens

Fort Lowell, Arizona July 1880

The scrub oak, or bellote is an ever green, which drops its old foliage in early summer; it looks somewhat like the Black Jack of the States. The sweet acorn is gathered for market by the Mexicans.

Albert ------ ?

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Lonicera: the Arbutus Menziesii.

The eastern Ampelopsis quinquefolia clambers over the bushes along the streams with a small grape vine and the luxuriant hop vine as if in it natural home.

Sapindus marginatus along the streams or sinks of the plain. Also Rhus diversiloba x
" toxicodendron

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1882

Amorphi Emoryi . Silver City flower May 11th

G. Gambelii . " 1-2000 feet higher

. flowered 10 days ago!

G. pinetorum . " in flower now, 11 May.

G. Alaifolii n. sp" may be G. rotundifolia

E. L. Greene

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S. B. Buckley in Proc. Acad Phil XII (1860) p. 444

p. 444 Quercus Shumardii" probably the Texan Q. rubra — 6' diam. 70 or 80 feet high

" Q. Texana [a form of palustris no, rubra ?]

p. 445. Q. Durandii "Bastard White Oak" "Basket oak" [name indicating toughness] a form of obtusiloba? or of undulata but said to occur also in Alabama & Louisiana

" Q annulata (near Austin, common) leaves entire or irregularly lobed & sinuous

(probably the same oak was afterwards called Sacsabean

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my check for Forty one
Dolls in full of acct
I ask your pardon for
not sending this before
as I overlooked it entirely
Hoping that this will reach
you & prove satisfactory
I remain
Yrs truly
J F Brooks
1625 Washaw

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Quercus Durandii Buckley in
Mr M J Young's Flora of Texas
1873 p 507. Tree 2–3 feet diam.
40–50 feet high — leaves nearly entire

Q. San Sabeana Buckley ibid
large shrub or small tree, often forming dense thickets

~~the foregoing~~ ~~Q. Durandii~~ ~~seems~~ to belong to
Q. undulata var Gambelii
forma repanda
notwithstanding the treelike growth ~~of the former~~

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to-day. To complete this form which has been waiting so long I have been obliged to publish a couple of detached descriptions of interesting species however.

Yours ever
C.V.R.

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Spach, Hist. naturelle des
Végét. phanerogames 1842
divides the Oaks in (Gay p. 7)

Robur } mature. ann.
Cerroides }

Erythrobalanus
Cerris
~~mature ann. fruiting~~ Gallifera
Suber
coccifera

} not bicn

——— later these 2 groups were declared by Spach to be ann.

———

Erythrobalanus is also adopted by Endlicher
Gen. suppl IV. 1847
by Gay in his "Notice" 1857

Erythrobalanus Spach is one of the
sections mentioned as part of
Lepidobalanus by Dc. Prod. p. 3
But not used as name for his
sect 3 (p. 58)

When and where is Erythrobalanus
established?

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Dr Engelmann
St Louis

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No. ____

Dr. Torr.

Liebmann's publication on N Mex & Calif Oaks 1854

Quercus Oaks 77

Dr. Torr
N. W. Corner

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CISTS

nacy,

RISON AVES.,

L

ERS,

JORS,

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Berlin Jan 1868

Recherches
sur la Classification des Chênes
par A. S. Örsted
Ex. mem. Soc. Hist Nat. Copenhag. 1867

p. 61

Quercinae	Castaninae
Styli seces superstites	Styli apice tantum stigmatosi
interdum stigmatosi	
Aucta mascula pedunculata	Aur. mascula erecta
Folia rarissime integra (?)	Folia fere semper integra (?)

§ 1. Cupula echinata vel uncinata, demum regularitor vel irregularitor partita 2 – 3 flores includens.

Fagus	Castanea
	Castanopsis

§ 2 Cupula squamis ~~solitariis~~ sparsis imbricata tecta; flores in cupula solitarii.

Quercus	Pasania

§ 3. Cupulae squamae verticillatae in lamellas concentricas lateraliter coalitae; flores in cupula solitarii

Cyclobalanopsis	Cyclobalanus

~~x, where are Astrogyne and many Asiatic Oaks?~~

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Quercus

I. Lepidobalanus — styli breves explanati sed stipitati
maturitate annua
ovula abortiva basilaria

1. Cotyledones aequales, radicula supera
folia simplicia vel pinnatilobe — Euelepides

Q. Garryana Hook. DC. p. 24
Q. Douglasii Hook " 23
Q. undulata Torr " 23
Q. alba L " 22
Q. lyrata Walt 19.
Q. obtusiloba Mx 22
Q. macrocarpa Mx 20
Q. olivaeformis Mx 20

folia crenata vel serrata crenata — Prinus

Q. Prinus L. DC 21
Q. bicolor W. " 20
Q. prinoides W. 21
Q. castanea Nutt. 21

folia rigida integra vel spinoso dentata — Ilex

Q. virens L. DC p. 38
Q. agrifolia Nee 37
Q. pungens Liebm 36
Q. berberidifolia Liebm 36
Q. hastata Liebm 36
Q. grisea Liebm 35
Q. chrysolepis Liebm. 37

2 Cotyledones inaequales radicula lateralis — Macrobalanus

Mexicanae: insignis, stramineae, Gelcottii, Wislizenii, acutifolia, corrugata, ~~[illegible]~~ifolia, Ceriophylla

II. Heterobalanus — styli elongati lineares antrorsi reflexi. Capsulae spinosae adpressae; glans et ovula et in I. — Hac sp. unica Hirulpus q. semicarpifolia Sm. DC. p. 15

III Erythrobalanus — styli elongati lineares antrorsum reflexi apice subcapitati sepius reflexi. Maturatio biennis — ovula abortiva superiora. Omnes Americanae

1. ~~Erythrobalanus~~ Glans magna, pericarpio crasso, discrepimentis dehiscentibus — Eu erythrobalanus

q. rubra 116
q. sonomensis 120
q. coccinea 119
q. tinctoria 119
q. Catesbaei 115
q. palustris 117
q. georgiana 118

2. Glans parva, pericarpio tenuiore, discrepimentis indehiscentibus — Microcarpaea

q. falcata 113
q. ilicifolia 114
q. nigra 125
q. aquatica 133
q. virginiana 132
q. imbricaria 124
q. phellos 123
q. cinerea 145

3. Maturatio annua ovula abortiva superiora — Hemerocarpaea

q. mexicana 108
q. fulva 161 et mexicana
4 Mat. annua, ovul abort. basilaria — Lepidobalanoides

16. Mexicanae

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II. Cerris styli lineares, nonnulli erecti reflexi; capulae squamae linear patulae vel reflexae — ovula abort. binil

1. Squamae liberae reflexae foliis grosse dentato-spinosis — q. cerris — Eucerris

2. id. foliis rigide spinoso-dentatis — q. coccifera — Ilicopsis

3. Squamae superiores liberae adnatae foliis minoriter spinoso-serratis — q. libani etc — Erythrobalanus

4. id. foliis serrato-dentatis — q. pseudosuber, q. suber. — Suber

Gen. Cyclobalanopsis

Sp. subline etc.

Subfamilia Castaneae

Gen. Cyclobalanus

Sp. subline etc

Gen. Pasania

P. dens. flora (Hook & Arn.) Hook fr. DC. 82 C

ceterae omnes stricture

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letter to Bebb

Sept 9 1877

Quercus Cerris

21. 22. 47. 11. 1 (12 ??)

Q. rubra

4. 5. 7. 10. 45 —

13. 43 (cupula hemisphaerica

Q. ambigua ?

Alternidis, tubbinata, tabbomlata

20. 9. 44 18. 54 (12 ?)

1, Rubra has the characteristic leaves or leaves like ~~[illegible]~~ on ever pelatis

2. Cerris, has its deeply divided leaves on the form tentoria the large, broad & fur. lobed leaves

3. Rubra with flat cup small appressed somtimes white tomentose rounded glabrous scales — acorn globose oval or oblong. Cups sordy hemispherical (Bebb)?

4 Cerris with deep tuberculate cup with large lax rev squamose brown-yellow pubescent scales Tentoria same acorn depressed or oval or oblong.

5. ambigua mihi (Mich x R) with leaves of rubra or of cerris, cups rather deep, strongly tuberculate, tuberculate scales smoothish. — Gillman Lake Lyons Bebb 9. 18. 20. 44. 54. —

Bark? flower? young leaves? Down does appear

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Dr Engelmann.

Mrs. Fair requested me to call at your house, to inform you that she felt much better; if anything should happen again, she would let you know.

Respectfully
C W Gay

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Flowering of Quercus species
at Bluffton, obs. by Dr Mellichamp 1877

Q. falcata — Q. cinerea
Q. Catesbaei
Q. aquatica — ~~Q. cinerea~~
Q. Catesb — laurifolia
Q. laurifolia
Q. pumila
Q. stellata
Q. virens
Q. alba

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Leitch & Corlies
DRUGGISTS
South West Corner Fifth and Market Streets

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Rec July 1st
Ans Aug 21 1880

San Francisco June 29th 1879

Dr Kellogg

Prof Engelman

Dear Sir — Yours of the 18th inst. Rec'd this after-noon — The juncus is fresh but will look after Spr.n — Short-lived on the Sands.

Am glad to hear of the work on our Bot. — Our Cal. Black Oak of Pacific Coast — say from scarcely above sea-level and bordering it — extends to 6.. 500 where only as a large shrub — usually barren — Comes in as a tree bearing acorns, at 6.. 300 altitude — others have assured me that it grows at 7.. 300 but I do not recollect seeing it so high — my impression is that the most prosperous belt where the oak is found is between 3 & 4000 feet.

I asked which it most reminded me of your Eastern oaks — the resemblance in growth of body bark branch & spray and even leaf; I would say the Yellow Dyer's Quercitron & Black Oak — but the smaller & more abundant trees of exposed hills and highlands are not so broad at the top, or rather ours towers more like your Scarlet Oak Q. coccinea — & Red-oak (Q. Rubra). This Black oak mostly tends to spread its branches from near the middle and above (not taking into acct. the short horizontal pin-knot branches below) giving the tree an oblong outline yet regularly enlarging towards the top, sweeping upwards & outwards — remotely like your White Elm. The bark

The leaves are rather deeply lobed by the three prin-
-cipal lobes on either side — pair of lesser
lobes often at the base — single end lobe & the
side ones terminate in several sharp points
locally bristle-tipt — the lays of the lem-
-ders too & are not as deep as the Scarlet
Oak — but more like the Red & Yellow oaks
size about 6 by 4 inches — petiole 4 to 5 the
length of the lem — Acorns solitary or several, sessile
or sub-sessile — oblong cylindroid, obtusely pointed
1 to 1½ inches long — Cup hemispherical composed
of oblong, acute membranous scales close-pressed
except where the roots reach an excess of
water (for it is rather a lighter & dryland oak
only admiring water at a distance deep beneath
the earth).

As to specific localities — from my
own obs.ns — I would rather be called on
to say where it is not — for it would be
less trouble. I ask this off promptly
— whatever I can learn that would be
likely to interest your investigations will
write without delay.

Mr. J. Baker is here and active — a very
erudite man but does not specialize
save in Lepidoptera.

J. Bolander asks you to the dogs in control

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(metaphorically)

American. God of Politics —
They're awful tricks to get hold of a
Saint!

Must close in haste

Yours truly
A. Kellogg

Residence
2132 Olive St.
or box 2247 Col. Head. Sq.

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is very rough pyramidally-conical-shaggy and the blackest of all the Black oaks — Color of foliage a cheerful middle-green &c — The final subdivisions of the sprays are to me relatively fewer than most other oaks — but am perhaps too particular — That was just my impression, —

This tree is from 40 to 100 feet or more high — 2 to 4 and rarely over 8 feet in diameter — some trees will furnish several saw-logs — but a log 30 feet long would be considered good — a great deal of it is not counted as timber on acct. of lower small limbs being so apt to leave their dead pin-knots in & spoiling it — for they do not — as usual with most trees — trim themselves by natural law — slipping off within & by growth pushing out the dead pins &c. Speaking of timber it should be noted, that like the Red Oak it abounds in sour sap, of which it is also very retentive — dries slowly — but this once abstracted by soaking or even thorough seasoning, it makes excellent axels for truck-waggons — buffers for cars and a vast number of useful purposes. As fuel it is highly esteemed, it "slows down" and makes a famous bed of coals, hence for domestic uses it is deemed excellent fire-wood. These hardness & strength are requisite to its good repute.

I hesitate — whether to describe it more particularly but it is so easy to pass over one's superfluities — I will even say a word about leaf & acorn

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