

Charleston 22 Jan 1838

Prof. Asa Gray, Cambridge Mass.

My dear Sir,

Mess^{rs} Little, Brown & Co announce that Peirce's Mechanics is ready for delivery, also that Davis' translation of Gauss' Theoria Motus is also ready. I have some \$17, I think, in your ^{hands} in anticipation of these debts, will you pay \$7⁵⁰/₁₀₀ for Peirce, and \$4 for Davis, for me, which will leave about \$5 in your hands for I will find some use. I am a subscriber to Davis' work, and therefore consider myself bound to pay, but as I have had a copy presented to me, I do not need the work, and would be glad if they will get some one else to take my copy. Have the goodness to try for me.

Your letter of 12 Nov. was received, but had not time to write presuming you would take silence not for consent but refusal. I would desire to give Harvey aid, but cannot purchase a collection of plants neither belonging to our own country, nor to families ^{with} which I am not somewhat familiar. The cost would be evidently more than the profit.

Now for a few words on Botany. — All our Pines as far as I have them afford left handed turpentines. I have not yet *P. Banksiana*, but Lapham hopes to get some for me. I have made a beginning in collecting European turpentines and Pines. Can you give me any names in Europe or in Asia Minor ~~to whom~~ I could apply for specimens, of *Pinus Conifera*, fruit & leaves, or who would exchange for our own. I want *P. resinosa*, fruit especially, to whom shall I write? As far as I can see at present, the turpentines of *Abies*, *Picea* & *Larix*, differ in their action on light from those of *Pinus*

although I can^{not} affirm it generally, as I have not had specimens enough. I still want the picture of your northern *Larix*, don't forget me. — I have got Endlicher's Synop. Conif. and am glad you recommended it. What other similar monographs are there, of other families I mean, as mention them. See another one in the Coniferae, Carrière, Traité des Conifères, 1858, what is the character of it? I have also Dietrich; I like it as an Index, but there are gaps, some print-stones are wanting, and in the ^{very} range he proposed to take, *Smilax* is wanting! Pursh or Michaux mention *P. rigida* as covering mountain tops in N. Carolina for miles; did it seem to you the same tree as your northern *P. rigida*?

In looking over genus *Panicum* in your Botany of N. States, I do not find *P. muricatum* Michx; what have you done with it? Is *P. nervosum* Muhl. different from *P. latifolium*.

What do you find the best application to protect the plants in the Herbarium from insects? In our climate they are very destructive.

I have recently brought before our Elliott Society of Natural History, the four species (or distinct forms at least) of *Cactus* or *Cactaceae*, that grow within 10 miles of Charleston, all belonging to genus *Opuntia*; only one is noticed by Elliott and other Botanical writers, *O. vulgaris* (*C. humilis* Elliott); I have called the others *O. tunoidea*, *O. macrocarpa*, and *O. fruticulenta*. Do you care to have living samples sent to you? The cheapest way probably would be by ships to Boston. I will wait to hear before I inflict them on you. It is possible however that you or Engelmann might like to see them.

Now about *Smilaxes* I have something to say. I have your Bot. of N. States as the latest available starting point, as far as

our species are included. It has been a help as your books always are, but I must add some corrections or remarks at least.

1. You do not distinguish colors exactly enough, unless your northern plants are not the same as ours. You call the berry of *S. Walteri* red, and the berries of *S. lanceolata*, and of *S. laurifolia* red too; well so they are but reds as different as red lead, and red wine. Our *S. Walteri* has a coral-red berry, as red as a Holly-berry or as seeds of *Erythrina*; *S. lanceolata*, *S. laurifolia*, berries of a red mixed with brown, and sometimes ripens gradually in streaks, like certain apples, these streaks gradually coalescing and becoming a ^{very} dark and finally, ^{seemingly} purplish or blackish red. The color of berries of *S. Walteri* is sufficient to distinguish it from every other your *Smilax*; the berry is sometimes decidedly pointed or 'acuminate' though not always so.

2. You say *S. Walteri* has leaves inclining to be ^{evergreen} persistent at least ^{Southward} further south; our *S. Walteri* is the most or earliest deciduous of all our species, it is difficult to get good leaves ^{with} the rich red berries, the berries themselves remaining until Spring. Can your species and ours be the same? does *S. Walteri* grow near you? 3. Neither you nor Pursh nor others notice the fact, that some of our species retain their berries (in some seasons at least) green or yellowish-green all through the winter, and ripen them at the beginning of the following summer. I have specimens of *S. lanceolata* with flowers or small fruit of 1837 with fruit of 1838 in different stages of ripening; in July or Aug 1837, *S. laurifolia* does the same, and in this state in the winter or Spring is Pursh's *S. alba*.!! Is any thing like this observed in your region? 4. Are there not all gradations of length between the moderate, long peduncles of *S. tunoidea* and the very long peduncles of *S. macrocarpa*? I find it hard to fix the limits, and the forms of the leaves are too various to lead much help, and they appear to be coriaceous in different degrees. It could fix the character

Of these two species I should have my ideas nearly fixed about the whole genus. Can you readily distinguish S. tamnoides from S. Pseudo-china? I want very much specimens of your northern S. hispida. Have you remarked in any our U.S. species any very marked differences in specimens considered by you as belonging to the same species, but some proceeding from your region, and others sent you from the South? 3. Of the Family Smilacaceae you remark that is "a group with no clear marks of distinction from the next;" what do you mean by the next? not Liliaceae surely?

I propose separating S. parvula & Walter with the two allied foreign species, as a genus, or perhaps better as a distinct subgenus, nearly if not quite as distinct as Coprosmaanthus. What do you think of it? They are unlike the rest of the genus in being pubescent and not smooth, and being prostrate, never climbing, and rarely rising more than a foot or two above the soil, aided by surrounding plants on which they rest; moreover the berry of our species is of a yellowish red, or orange, and ovoid in shape.

In your letter of 24 July last, you offered to get me last parts of Memoirs of Amer. Acad. in 4to. I shall be glad to get them, but must inform you that I am not a subscriber, nor can I become one. I have Proceed. Amer. Acad. to page 184 of vol III.

What do you make of the enclosed plant. I found it thus in the Mts of N. Ca. in the summer (Aug or Sept.) without flower or fruit.
Semio milifolium?

Can't you give me something of a letter, I am thankful for your little cut-me-shorts, ~~little~~ but will be pleased with something longer.

I hope Miss Cunningham is improving in her Egyptian tour. Couldn't she bring us home something botanical. I speak for Pines and cacti.

Yours Truly
Lewis R. Gibbs.



Gibbes, Lewis Reeves. 1858. "Gibbes, Lewis R. Jan. 22, 1858." *Asa Gray correspondence*

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