Rec'd May 6th Florence 19 April 1864
Ans May 24th

Arbus fig 180-1

Dear Sir

Although not wholly a stranger to you, I cannot flatter myself you have a very distinct recollection of me as I have had the pleasure of meeting you only once, several years ago at the house of our lamented friend Mr. Gay in Paris. I hope however that I do not intrude by writing to you for some botanical information of which I am in need. I have studied to some extent the formation of the pulp in fruits, and a summary of my observations has been inserted in the Annales des sc. nat. vol. 12. and at present I am engaged in preparing another paper on the same subject, to be accompanied

by plates. In my researches I have recently had the good fortune to see the account of your most interesting observations on the pulp of the fruit of Cactaceae, published in the Trans. of the Acad. of St. Louis; most opportunely for me they fill up a gap in my own observations, which for want of sufficient materials I had been able to extend to only a very few genera out of the whole tribe. Only I should like to know when and where you first published yr observations, whether in the above-mentioned paper which I have seen, or in Lect. Mex. Bound. (a work we do not possess in Florence), or elsewhere. If you would satisfy my curiosity I should be greatly indebted to you for the information.

Allow me to observe, that in Opuntiae I do not believe there is, as you seem to think, a true arillus, but that the fleshy coating of the seed is derived from an ordinary tegument: a fact already noticed by Planchon in his Mém. sur les arilles.

As I know that botanical works published in Italy rarely find their way to America, I hope a copy of some of my publications will not be unacceptable to yr Academy of science. In a few days I shall have completed a flora of Tuscany now passing thro' the press, and I shall then take the liberty of forwarding it to yr address for the Academy, together with a few memoirs &c.

If yourself or any of your botanical friends ~~would~~ should like to have dried specimens of plants from Italy, I should be most happy to forward any I might have among my duplicates. If I could have in exchange American plants, I should be very thankful indeed, as my herbarium contains very few specimens from yr country, with the exception of a valuable collection of from S. Carolina for which I am

indebted to Mr. Ravenel, and a few grafses from Michigan given to me by Dr. Lander.

Hoping I may soon have the pleasure of hearing from you, I remain

Dear Sir

Your's sincerely

T. Carnel

Prof. of botany in the Medical School, Florence.

Rec Aug 13
Ans Jan 28 1865

Florence 22 July 1864

Dear Sir

I thank you very much indeed for yr kind letter, and the information you have given me, which has come in due time, as my memoir is being printed just now. I have looked in vain for the report on the Boundary Survey in all our libraries, where it is not to be found; however the extract you have given me is sufficient to my purpose. Our difference of opinion about Sibes puzzles me, and I can only explain it away by supposing that by the term aillus we mean different things; my notion of the organ is that it is an expansion of the funiculus developed after fecundation, such is the definition given by Blanchon, whose work (published at Montpellier in 1844 under the title: Mémoire sur les développements et les caractères des vrais et des faux arilles) I consider ought to be the basis of all future researches on

the subject. Now in Ribes I have never observed anything of the kind, but was led to see in the fleshy covering of the seeds only a modification of the true testa. It is too late in the year to begin my observations anew, but when an opportunity offers I shall certainly repeat them. When my memoir is published I shall send it you, together with some minor publications. Some time ago I sent to you a parcel of books, but those were intended for the Academy of which you are president.

As I have no personal intercourse with Prof. Carlatore, I copied out what you wanted him to know, and sent it to him by a common friend. He sent answer that he had already written to you on the subject. I have no idea when his part of the Cruciferous will be out; but I suppose not so very soon, as I see that there remain still many orders to be published before Coniferæ. Besides I hear that he is engaged in a monograph on Gossypium. Have you heard of the observations of a Neapolitan botanist, M. Caspary, on the resiniferous canals in the

cons of Coniferae? there is an account of them in the n. 14 of the Botanische Zeitung for this year. I have looked about for Coniferae in flower as you wish to have them, but with little success, as they are deficient both in my herbarium and in those of my friends. however I shall put together in the autumn and send you all those I have got, and supply the deficiency next year. I have already bespoken all those of the botanical garden in Pisa. Pray tell me whether you, or any of yr botanical friends in yr part of the world, would like to have plants from Italy. I shd be very thankful for any American plants in return, especially Ranunculaceae, of which I intend working up a monograph; peculiar circumstances oblige me to rely only on my personal resources in books and especially plants to continue my labours.

I am not settled in Florence as some expression in my letter may have led you to believe. I am only professor extraordinary in the medical school here, which is —

temporary appointment, very poorly attributed, and has only to redeem it the advantage of leaving me master of my time for 8 months in the year.

I hope to have soon the pleasure of hearing from you. Meanwhile believe me dear Sir

Yours very truly

T. Carrel

These are the words about Ribes in Blanchon's memoir: « Je n'ai pas besoin de dire que j'ai exclu de mon travail l'étude de ces parties de la graine ou du péricarpe qu'on a pu prendre autrefois pour des ailes, mais qu'une analyse plus rigoureuse a fait distinguer depuis longtemps. Tels sont les téguments extérieurs = ment charnus de certaines semences, des Eurée, des Ribes, » etc.

Rec^d June 23^d
Ans J. 28

Florence 4 June 1865

My dear Sir

A few days ago I sent away a parcel of plants for you, being the Conifers I have found in our gardens. I am afraid you will not find much to interest you, as the larger and flowering trees of the tribe belonging to the better known species, and the novelties are only represented in our gardens by very young specimens. If I had access to Mr. Sarlstone's garden, I should probably have found something better to send you. I have added to the Conifers a selection of Tuscan plants, and hope you will find them an interesting addition to yr herbarium. You will also find in the parcel a few of my latest publications, including my recent memoir on pulpous fruits, in which I have made use of what you wrote

to me on the fruit of Cactaceæ and hope my ideas on the subject will meet your approval.

Last year I sent you a parcel of books for yr Academy and should like to know if you have received them.

Pray be so kind as to let me know as soon as possible if you have received the parcels. My present appointment as professor at the medical school here is to last only a few months longer, when the place will probably be supplied with many others, and I shall be obliged to go somewhere else to get a living, and yr letter might find some difficulty in reaching me.

Believe me, my dear Sir, always

Yours sincerely

T. Carrel

T. Carnel

Rec^d Jan 4th 1866 Florence 10 Dec. 1865
Ans Febr 10 1866
Via Guibelli n. 3525

My dear Sir

It was very unfortunate that yr last letter should have reached me only towards the end of july last, as I had sent you a parcel of plants (including the Conifers you asked) only a short time before, in june, and not being apprized of the economical mode of conveyance via Smiths. Inst., directed it to you, so that I am afraid you will have had a great deal to pay for it, and much more than it is worth, as it happened with the parcel of books. However it will not happen any more. A few days ago I sent you a small parcel, addressed Hudson o/o Arrange for Smiths. Inst., containing the fruits of Viburnum and the specimens of Callitriche you asked; of the first there are few species and only common ones;

but among st the last you will find all the southern forms you mention.

I thank you for yr very interesting C. ustusii, and shall be glad to see what you have written about that puzzling little group. I shall take up the subject of the seeds of Ribes if some future opportunity, but I really very much doubt whether there can be anything else in them besides the proper integument. I have put in the parcel I sent you in June a copy of my memoir on pulpous fruits, and shd like to know whether it meets yr approval. The copy of yr Cactaceae you have kindly sent has not yet reached me, but I suppose it cannot be lost. I have written to Bossange to inquire about it.

I am still for the present in Florence. Last summer I went over to England to see if there was any probability of my getting a situation there; it seems there is none for the present, but I have perhaps a better chance of getting a professorship

at Lausanne in Switzerland. In London I had the pleasure of seeing Hooker, Bentham, Oliver, Seemann, Bennett. — I have undertaken to write a flora of Italy, a Synopsis; so I depend wholly on my own herbarium for the materials, I can work it out in whatever place it will please God to send me.

I am dear Sir

Yours sincerely,

T. Caruel.

Rec'd from Gn
Ans Febr 10
1868

Florence 20 may 1866
Via Garibaldi n. 10

Dear Sir

I had the pleasure of writing to you towards the close of last year. Since then I have at last received through Ossenge yr very handsome work on Cactae, for which I am the more indebted to you, as otherwise I should not have been able to get a perusal of yr interesting observations on the fruit and seed of the order.

My time is now much taken up by the task of putting into decent order the botanic garden here, of which I have the directorship pro tempore, till the government have decided whether they will keep it, or suppress it, or convert it into a public walk. However I have

found leisure to consider again the subject of the seed of Ribes. I have examined carefully different species, principally Ribes Grossularia, aureum, alpinum, rubrum, nigrum &c, but found nothing to alter my opinion, that the fleshy coating of the seed is due to a peculiar alteration of the integument proper or episperm, without there being any trace of an arillus. In R. Grossularia there is a slight expansion of the funiculus, or rudimentary arillus, such as is found in very many plants, and quite distinct from the fleshy episperm.

You will be sorry to hear that our eminent botanist, M. Gasparini of Naples, is very dangerously ill of a complication of disorders, principally diabetes. His loss would be the greater because in Italy for the present there are so few botanists of note, and not one to succeed him in his particular branch of histological researches.

Believe me, dear Sir, yours sincerely

T. Caruel

Rec'd Berlin May 15th
Ans — June 18

Florence 9 may 1868

Ans to letter dated Febr 15.

My dear Clair

You have indeed no apology to make for yr demand for Conifers, as it is a satisfaction to me, and I feel it to be a duty also as a scientific man, whenever I can be of use to my fellow labourers in the fields of science, especially when any materials I may bring together are worked to such good purpose as it is yr habit to do. I do not think I could find anything new for you in the gardens here in Florence, having already sent you I believe every thing I could lay hands on; so I have thought of writing to my good friends Mr. De Visiani at Padua and Mr. Cesati at Naples,

asking them to make collections of flowering Coniferæ at their gardens for you, and they have both answered assuring me they will, and I think we may rely on their promises. So when you come to Italy you will find some thing prepared for you, at least I trust you will.

You will find me ~~stables~~ in Florence, where I continue pro tempore, having failed in my attempt to get the professorship at Naples. I am not a lucky man, and it is all up hill work for me in this country.

I received in due time the first part of your paper on Cuscus, and it came most opportunely too, as I was then studying our Italian Fraxinus towards preparing materials for a flora of Italy, and found good help in your memoir. I shall thank you for the continuation

Yes, yes, for the specimens you are so kind as to hold over for me.

I send this letter to Dr. Drake, who has requested to see it, as he is your most intimate in Paris. If you come to Florence, you will find me at the Orto dei Semplici, as I shall have probably left my town residence in Via Garibaldi n. 10 by that time for some villa in the country.

Believe me my dear Sir

Yours sincerely

T. Caruel

Dr. G. Engelmann

St Louis

Recd June 29th
Mr Wolf

Florence 24 june 1868

My dear Sir

I have received yr welcome letter of the 18th, by which I see you have postponed yr visit to Italy, as I had anticipated you would have come in the summer. I can tell you that my good friends Caruel and Devisiani have both answered my request in yr behalf by the fullest assurance of doing their utmost to try and not to gather flowering Coniferae for you. By the by I see by yr paper (enclosed) that you have already begun publishing the results of yr observations on that most interesting order. I wish I cd give you an equally satisfactory

reply to yr questions concerning wild vine; but I must confess my total ignorance as to many of the facts you hint at. All I can tell you is this: the vine does certainly grow wild in Tuscany, but whether truly indigenous, or naturalized ab antiquo, I cannot say, and really there are no means of ascertaining as far as my knowledge goes. It is found in the hedges in many places of the inner ultimate tract of the province, for example round Florence, but never bears fruit, and never attains any considerable size. In the hotter southern maritime portion of Tuscany, it is found growing in the woods, and becomes gigantic, bearing fruit, of which wine was made when the oidium disease began, as it seems that the wild vine was for some time free from the epidemic that fastened on

the cultivated grapes, tho' at last it also came in for its share. The peasantry call the wild plant Bruscia, a corruption of the Latin Labrusca, and Zampino, and I have been told that the grapes are small in size, and rather acid, but I have never myself seen them; as the Maremma or maritime region where they are found is feverish when they ripen and never visited by botanists in that season. The botanists of Italy have generally accepted the plant as Vitis vinifera sylvestris, and I am not aware of any one having paid further attention to the subject. You will find in Bertoloni's Flora italica summed up what is generally known on the subject. But now you have put me on the scent I shall try to gather some information more novel and precise, as also specimens of the fruit when ripe, and keep them

ready for you when you come.

I should as well like to have your American plants now rather than later, if you will be so kind as to further them addressed to me all'Orto dei Semplici", Florence.

I have just put aside for a short time my Italian flora, being engaged in working out a botanical geography of Tuscany which I have been preparing there eight years. My prospects in this country are so unsatisfactory, and consequently my stay so uncertain, that I have thought it better to use all the materials I have been putting together for works of local interest, so as not to lose the fruit of my labours were circumstances to call me shortly to some other part of the world.

With my best respects to Mrs. Gray, I remain dear Sir

Yours sincerely

T. Caruel

Rec'd Nov 18th Naples
Ans Rome Jan 24/1869

Florence 6 nov. 1868

My dear Sir

As you tell me in yr letter that you intend going shortly to Naples, I send my answer there. I shall prepare the letters for Asa Gray and forward them to Alexandria so that he may find them there on his arrival — as I have to write to a native in Egypt. I have received his Bot. contributions, together with many other most valuable papers, for which I have already sent my thanks.

I see that Dr. Buchenau has taken up yr views about the markings of the seeds of Juncii, and applied them to the discrimination of the European species.

When Prof. De Visiani will send me the lines I shall put them along with yr other things. I shall probably have to write to him one of these days, and will remind him of them.

I am very sorry to say that my plans about the Orto di Semplici to all appearance have proved a failure. The town=council seems pretty well disposed to spend for the ornamental part of the garden, to make it more pleasant as a public walk; but I have been expressly told that for the botanical part they do not intend spending a farthing more than what the government has hitherto given, which is wholly inadequate to keep the place in a decent way, as you yrself have seen, in fact the condition imposed by the government

in making over the garden to the town-council, to maintain it as a botanical garden, is considered by the councillors as a burden, to be made as easy as possible, and perhaps got rid of if the occasion offers. Of course if they persist in these views I have nothing to do but to withdraw from the direction. On the other hand, without living plants, without instruments and books, what I am to go on with my lectures and my studies, is a sore puzzle. You may well guess how grieved I am at all this; but the garden has always been an unlucky one, and it seems I am not a lucky man. How often have I had reason to regret I chose my abode in this country!

At Naples you will have plenty to do in the environs and the garden, which Trinchinetti has put in good order by this time. They remember me kindly

to him, as also to professors Sedgwick, Lieberli and Sargenile you will have probably met.

My best respects to Mrs. Engelmann, and believe me

Yours truly

J. Carroll

Rec^d Febr 2^d Rome
Ans April 26 X mo.

Florence Febr^y 1, 1869

My dear Sir

I hope my answer to yr's of the 24th. last may arrive in time to find you still in Rome. Yr parcels are all safe, and I have written to De Visiani to send me anything he may have prepared for you; and in a month hence I shall send them to Berlin to prof. Braun as you have directed.

I have from a correspondent in Egypt that prof. Gray has arrived there, and only stopping a day in Alexandria started immediately for Cairo, to go up the Nile. He had the letters I sent him, and I hope they may have been of some use to him.

I must inform you of a project that has been started here, of publishing a botanical newspaper. I have been induced to take the management of it, and the first number will appear in march, to be continued quarterly. Of course my name will not appear in the title-page, in order not to excite any sentiment of rivalry amongst my very susceptible Italian colleagues. The „Giornale di botanica„ will have no peculiar column, and all the responsibility of the articles will rest with the authors who sign them. Gray communicate the information to the botanists in Rome, i.e. Contessa Fiorini, and Rolli the director of the botanic garden, and the professor (who may he be?) at the „Sapienza;„ and tell them we shall be happy

to receive for publication anything
they likes to send. If yrself could
favour us with something bearing
yr name, we should be very much
obliged indeed.

We had here in Florence mild damp
weather until the middle of jan.y; and
then all of a sudden it became intensely
cold, the centigrade therm. falling in the
night to −6, −7, and even −9. Now it
is again very mild and damp.

There is nothing new about my
garden, which drags on its precarious
existence, with every probability
of getting knocked on the head one
of these days. If I still stick to it,
'if fame you it is thro' a sense of
duty and in order not to leave it
quite helpless, otherwise I shd gladly
leave it, sick as I am with having
to contend with the paltry mean
spirit of the administration and the
population of this country.

I think I told you that I had once looked into the question of the "gymnospermia" of Conifers, without having come to any conclusion. I have taken up the subject again lately, and have pretty nigh enlisted amongst the "antigymnospermists," and drawn up a summary of my reasons for the "Giornale." — Indeed, as editor I find I must dive into my notes to concoct articles of various lengths to fill up void spaces in the paper, for which I am sure to get few thanks and much criticism.

If you go to Montpellier pray remember me kindly to Planchon.

My family are all well, thank you.

With my best respects to Mrs. E., believe me dear Sir

Yours truly

T. Caruel

Rec^d Jun 18^2 at Berlin
Ans — 24

Florence 12 May 1869

My dear Dr. Engelmann

The departure of our (so I am happy to be able to call him) dear friend Dr. Asa Gray for Vienna where he is to meet you, affords me a favourable opportunity of sending you the specimen of Cedar you wanted to have — together with a drawing of the fresh cone as you desired, done by Mr. Odaroni who has supplied my deficiency as a draughtsman.

You may have seen by this time the 1st number of our Journale botanico. In the 2d, now being printed, you will find my notes on the subject of gymnospermia — mind, they are only animadversions and doubts, and have no pretension to be a solution of the

problem, which I own I have not as yet been able to comprehend fully as to all its bearings. — I have ready another article on the wooly cord in the seeds of *Luzula*, which I have clearly made out to be as I surmised a production of the placenta different from the funiculus, against MM. Baillon and Duchartre who contradicted my first assertion. I send you my first article on the subject, together with several other papers which I am not aware having sent you as yet.

I am glad you have enjoyed yr voyage through France, and thank you for the details you give me about yr mutual friends there.

Matters here are rapidly coming to a crisis for me. I have resigned my situation as director of the botanic garden, not having been able to carry my point with the Municipality.

When my lessons are over, in July, I shall give up my professorship at the apothecaries' school as another bad job. The demise of prof. Moris may perhaps lead me to occupying his place at Turin; but if it should be decided otherwise, I must leave this country altogether, as I can't afford to go on mizzuering it any longer. I have a relative in Australia who wants me to go and join him in mercantile and agricultural speculations, and that might be after all the best for my family, if not for myself.

I shall keep in mind yr requests about the development of leaves. Any article of yours on that or any other subject will be gladly accepted by our Journal.

With my best respects to Mrs Engelmann I remain

Yours sincerely
F. Caruel

Dr. Engelmann

Vienna

Rec^d Kreyenhof Sept 11th 1869
Ans St Louis Aug 22 1872

St Louis 12 Septr 1869

My dear Dr. Engelmann

I don't know whether this letter will find you still in Europe, or have to cross the Atlantic after you. At all events I hope it will find you in good health, as also yr good lady. Some time ago I forwarded to you a package of dried samples of vines from the Maremme, only the male flowers — it was all I could get from my pharmacopolus, and I suppose you have experienced already as well as myself the great difficulty of getting unscientific persons to serve you properly in collecting botanical specimens. Yr seeds of Agave I sent to Demidoff's gardeners, as I have wholly given up the orto di Semplici. By the by, you will be

sorry to hear that the S. Donato establishment is being broken up, the plants sold and the gardener dismissed, so at least I have been told.

I had Prof. De Notaris informed of the arrival of the packages of Gussi at Milan, as you desired.

You ask me about my plans and movements. Well, after the death of poor Moris, I hoped I might get his places at Turin, and the hope changed to what appeared to myself and to all botanists in Italy a certainty, after it was known that De Notaris had declined the professorship at Turin which had been offered to him in the first place, and very properly too. I rested my claims principally on the vote of the Commission which had not in judgment on Caruel, myself and others at Naples, and having awarded the professorship at Naples to Caruel,

had placed me next in rank to obtain the very first vacancy. But alas! at Turin they have judged otherwise, the University there having brought forward as a candidate Mr. Del Conte, assistant to the late professor, of whom you may have heard — or not. The Government here, better informed, has refused to nominate Del Conte; but it has not had the courage to name me in opposition, and has washed its hands of the whole business by putting the office <u>au concours</u>. I have refused to compete for it, I have a thorough dislike of the system of competitive examination, and having once gone through the ordeal don't care for trying it another time, besides I feel it to be an injustice that they should have thus set aside the result of the <u>concorso</u> at Naples, to put all again in question by ordering another. So here am I quite astray, and not knowing very well what to do. I

think I shall keep quiet this winter in Florence, as I have plenty of work on my hands, very much wishing to prepare for the proofs a work on the geographical botany of Tuscany which has occupied me already eight or ten years. In the mean time I shall do my utmost to procure some situation as a botanist in some part of the civilized world; and failing, my last resource will be emigrating to Australia, where I have a brother-in-law already established there.

But these troubles of mine are only disagreeable. I have had moreover in these days much sorrow and affliction at home, by the death of my youngest child!.... Two others have been ailing likewise from gastric fever, but thank God they have recovered. My poor wife is very much distressed, and now I must tremble lest her health should give way under her grief.

I remain my dear friend your's truly

T. Caruel

Rec Oct 8th
Ans Nov 19

Brighton 21 Sept.r 1872

My dear friend

I received yesterday yr letter of the 22d August, here in England where I am since a week, remaining with a relative of mine for a week longer, just resting from a voyage through Austria, part of Germany, Belgium and Holland for the purpose of visiting the botanic gardens there. When I leave I shall go to Paris for a few days, and thence return to Dijon, which is my present abode, and where I shall be very glad to see yr son should he happen to come there, and look out for me at the "Orto botanico." It is just a year and a half I obtained the professorship of botany and direction of the botanic garden at the University

of Lisa, become vacant by the sudden illness (shortly afterwards followed by an untimely death) of my poor friend Lea. Though Lisa can not be compared to Florence, either as a residence, nor as to the amount of materials to help you in botanical work, yet it possesses many advantages, and on the whole I am right glad to be there. Other professors are a good set, and very kind to me; the students are manageable, and not a few take to botanical studies, and come to work in the garden, the herbarium, and the micrographic laboratory which I have got up for them; and the townspeople are thankful that I have put the botanic garden at their disposal as a public walk. I have plenty of work, tho' somewhat a scarcity of materials to be sure, but I manage to work on, and so the time passes not unprofitably.

I cannot now recollect when I last wrote to you, but it was not so very long ago, and entirely after the receipt of the plants you send me, and for which I cannot have failed to thank you, as they were most acceptable. I need not tell you that I shall receive with the greatest possible pleasure the seeds of Ferns and Conifers you intend to send me, as also any seeds of trees, bushes or perennials of great part of the world that would thrive here: with my very limited hot=houses I cannot pretend to have any collection of tropical plants worth the mentioning, but I can get together a good collection of plants which can stand the open air in the climate of Nice.

Demidoff's garden is still in existence, and the present proprietor it seems intends to keep it; indeed in Florence the passion for gardening

is on the increase, and quite the thing amongst fashionable people. Ballatore is trying very hard to have a great international exhibition of horticulture and botanical congress in Florence for the spring of 1874; but I scarcely hope he will succeed. The Orto dei Semplici is still in existence, but so altered and ornamented to serve as a public walk that it has nothing now of a scientific garden.

I was before yesterday in Kew, where I saw Bentham and Oliver, also Dr. Hooker, much changed I thought and looking care-worn, as well he might after all that annoyance he is suffering from that Mr. Ayrton. And it seems it is not over, as Mr. A. is bent on transferring the herbarium and library from Kew to Kensington, to incorporate them with the collections from the British Museum which are to be carried

there; however it is to be hoped that some change of ministry or other will take it out of the power of this mischievous person to do such damage to the New establishment, which has such world=wide and well deserved reputation.

My friend Mr. O. Beccari is out on a new voyage, to New=Guinea. I have taken off his hands the editorship of the Giornale botanico, and if you had any paper which you might like to have published in it for the instruction of our Italian public, I shall be too happy to insert it. By the next envoi of the correspondent of the Smithsonian in Italy I shall send you a few pamphlets.

I left all my family well at the sea=side near Leghorn, and they continue all in good=health, my wife and four children.

Believe me yours sincerely

T. Caruel

Rec'd July 16th
Ans July 29 1876

Wien 27 June 1875

My dear Doctor

What you tell me in yr letter of yr trip to the Rocky Mountains last summer has made me heave a sigh, as I often do when I read of flora which I ~~might~~ have seen with the eyes of the head, and must now be content to see in herbaria and in the papers, to dissect them and generalize and theorize thereupon as best I may. ah me! but what difference between a study of life and closet elucubrations. "old Goethe knew well when he said: grau ist alle Theorie, und grün des Lebens goldner Baum. However I must not repine if circumstances have made me a sedentary botanist. My longings here, tho' somewhat

well, are rather nice on the whole, and cosy. My garden thrives with the new gardener; unfortunately he was too late for yr pines, which I am sorry to say have all perished; but if you had some opportunity of sending me more seeds, I shd hope they would be better taken care of this time. Last autumn I went over to England, and staid some time in London, and saw all our botanists there, and Mrs. Hooker at Kew, poor lady! a few days before her sudden death. Mr. Larlatore at Florence continues poorly, he has been suffering from a sarcocele for more than a year, and was to have been operated a short time ago. He has now with him at the Museum a late assistant of mine, who works in physiological cryptogamia. The garden at

San Donato is in a flourishing condition at present, under its new owner, heir of the former Prince Demidoff. several other of the rich people in Florence have caught the fashion of gardening, and altogether there is a progress in Italy as regards horticulture and botany, at least the taste for them. I have been encouraged to write a text-book for our students, I am now hard at work upon it, and when it is published I shall finish my packet flora of Italy, at least dry do so as quickly as possible. Thanks for yr paper on Yucca, and other contributions to science I have received from you. In the autumn I shall make a parcel of different things which I have ready for you, and try if sending them by some other channel may better insure yr receiving them. It is a long time I have not heard from Prof. Gray.

May remind me respectfully
to yr good lady, and believe me

Yours truly

T. Carruc

Rec'd Wellington Sept 18/96
Ans April 23 1880 London 19 August 1896

My dear friend

I have received yr kind letter of the 29 july here in London, where I am on my usual visit to my relatives, having left Sicily more than a month ago. On my return there at the close of the month I shall find yr packages, for which I thank you, as well as for the seeds of Agave, I shall recommend them particularly to my gardener, and if they prosper, further you subsequently any notes you may wish for on the plants; and in a general way any service the botanic garden of Lisbon may render you, I beg you will ask. Mr Delpino is now professor at the university of Genoa.

I am quite satisfied that you with my position at Sisa, and thoroughly sensible to the advantages it gives me as a scientific worker who requires a good deal of leisure and liberty; I only wish the climate were less relaxing and the place a little more cheerful. I don't recollect whether I have forwarded by you my latest papers; when back at Sisa I shall ascertain better, and send them to you if not already sent. I have just published a little work for field-botanists to find out the names of Russian plants; and written a brief sketch of the history of botany for appearance to appear in the Giornale botanico; But the best part of my time has been given to preparing a text-book for my students. Having taken as a rule to verify all the facts I mention, you will not be surprised that I have been already two years so

at work, and done only the histo-logical and morphological parts, the former without bringing any novelties out, but the latter has led me to a treatment of the subject, which (should it be no less at all) will probably raise a hue and cry on its departure from the ordinary views expounded in schools. Here I have seen only very few of our colleagues: Dr. Masters, Mr. Bull, Baker and Oliver, Dr. Hooker who is going to be married again, but does not look well, I think he is over-worked with his duties as S.R.G, director of the Gardens and what not, and his botanical publications, tho' in that line he does much less now: Mr. Carlo Lore in Florence is quite well again and has resumed his work on the Italian flora; he has now with him as lecturer on cryptogamic botany Mr Strangeli, a nice young man, who was formerly my assistant.

Believe me always

Sincerely yours

J. Carnell

Dear Sir — My assistant, Mr. Mori has found here a Sparganium, which cannot be distinguished from yr specimen enclosed from yr survey. But to make more sure, we should like to see yr description of the species, and desire to know where we may find it, as we have not been able to find it anywhere.

Yrs truly
T. Carruel

Bisa 1.10.80

CARTOLINA POSTALE

DIECI CENTESIMI

Al Dr G. Engelmann

St Louis (Missouri)

U. S. of America

NB. Su questo lato non deve scriversi che il solo indirizzo.

St Louis Aug 30
Af March 11

Antignano near Leghorn
14 aug. 1880

Aug 30th

My dear friend

I am spending most of my holydays here at the sea-side, and having more leisure than at home, I can answer quietly yr kind letter of april last. My home continues for the present the University of Pisa; but it is almost certain that before the winter sets in I shall have to transfer it again to Florence, where I have been offered the post Villari has occupied, and have accepted, under certain

conditions that it seems will be needed to. I will have to direct both my old garden *de' Simplicii* and the one at the Museum, the herbarium there and all the other botanical collections, and to teach botany there and at the pharmaceutical school — a wholesale arrangement that will give me plenty of work. But most of it will be in the begin=ning, until I have it into good order the whole business, which has fallen into a sad state of disorder and decay during these three years of mismanage=ment since Carlstore's death. Of course I shall consider it one of my duties to take up and continue if possible the *Flora italiana*.

I much regretted hearing of the death of yr kind lady, whom I well recollect, and of the sad accident that has happened to yr son. I hope however he may get well over it, and free from any future consequences. My best thanks for yr botanical writings, which I have received regularly from time to time. I trust you have received those I have always had good care to send you — including my little book on vegetable morphology. I have not produced much of late, as most of my time is given up to working out a new system of classification, with the view of bringing the <u>families</u> together into natural <u>orders</u> — a most ambitious attempt, but which I

would fain believe will not be utterly unsuccessful or useless.

With my best wishes believe me

Yrs truly
T. Carrell