Rec^d Cambridge October 24th
Ans X^mas Jan 21st.

St Louis Oct 18 1856

Dear Sir

Yesterday re=
ceived your esteemed letter of
the 11th inst – with the enclosed
list of the botanical works of
Sir W J Hooker – which are vastly
more voluminous than I expected
– and but few of them that I
would select at present – viz

Exotic flora
Catalogue of Bot. garden Glasgow
Icones plantarum ——

Hope you will not give yourself much trouble, in thinking of these works – as you might probably find some others equally or more suitable to my object – that is to acquire a knowledge

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of botany & horticulture my-
self — & diffuse a taste for the
same among others — in the
purchase of books you can go
to the amount of one hundred
dollars, which I will refund
to you either here, or in Lon-
=don — but if you meet with
anything suitable to an object
please let me know — as I shall
want books if I know how
to select them — and am very
much flattered at the interest
you take in my projected plans
— we had the first slight frost
here Sept 24th — a week earlier
than in 1855 — and again the past
few nights — more tender — all ten
der garden annuals are withered
— your cacti are in doors and
in the plan you selected — one of

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Mons.r Flourens – but only for a day – we have had a fair at St Louis, as you are probably aware – the horticultural part of it was rather poor – being too late in the season for flowers – the fruits were better, and culinary vegetables of very fine size – among the flowers the Strelitzia regina was in bloom – a rarity to me – – the vines were very serviceable fruit trees promise well for next year's produce – my finest pear was 13 ins circumference & 1 lb 4 oz – Duchesse d'Angoulême –

– is there a catalogue of the Cambridge garden? – if so please send it me – get all the plants & catalogues you conveniently can – my mind is intent on the undertaking – which I am ~~anxious~~ anxious to com=

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since — and by dint of reading and observation am endeavouring to gather up some crumbs of botanical science — how happy I am in finding you take an interest in my plans —

Yours truly

Henry Shaw

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List of Books desired by
Shaw
with Metten.

Weigelts Catalog 1857

		Rll.
40	Aiton	8/6
5-6	Allioni	15
96	Andletter	8
139	Barton	18
197	Brown	1/2
472/a	Clarkell	15
480	— —	1/2
508	Catesby	15
659	Desfontaines	23
668	Dict. de Sim	110
667	Dilleanius	8
695	Don	10
696	"	5
730	Duhamel	68
754	Edwards	68
952	Fuchsius	2
953	"	2
1029	Jussieu	6

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1309	Hooker	E	4	—	14 2/3
1313	Do	"	3	—	18 1/2
1320 V	Do	"	10	—	30 2/3
1479	Kirby	L	1	—	[illegible]
1579	Labillardiere	L	1	—	2 2/3
1591	Lamark	L	1	—	10 1/2
1745	Linneus	L	1	—	16 1/2
1751	Do	L	1	—	1/3
1769	Do	L	1	—	
1774	Loddiges	E	20	—	100
1793	Loureiro	L	2	—	1 1/4
2508	Ruiz	L	1	—	6
2628	Shuttleff	L	1	col	12 1/2
2764	Smith	E	2	—	45
2874	Swartz	L	3	—	6 1/4
3269	Delessert	F	3	—	8

Henry Shaw

Jan 12 1858

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Rec'd Munchen Octo 25
Ans Frankf Dec 14

St Louis Sept 15
1857

Dr Engelmann

Dear Sir

I was much gratified at receiving your esteemed letter per hands of Dr W— and am glad to hear you were well and enjoying yourself at Kew — you must have missed my last letter addressed to your Frankfort address Frankfort on Maine — your draftsman — and another amateur were at Town Grove — looking at the Cacti — and no doubt will report to you concerning them — they are now out of doors and in a fine growing state — but shall take them

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in before the 1st of October
the weather is now fine and
warm, the crops are maturing finely
and fruits are abundant — so
found of the seeds you sent me from
Berlin — came up and flowered
most of them are annuals — more
seeds of perennial trees and hardy
shrubs would be acceptable —
— The cerealia from St Vil
moriu — shall have my best atten
-tion, when they arrive — the
garden is all trenched over 2 ft deep
(cost $1000) and in fine order for plan
ting anything — two large tanks, 10,000
gals — two wells, with a main
drain arched with stone and lai
d deep — the drains & tanks cost $2000
— am now building the walls of

stone and brick, two sides will be finished in 60 days at a cost of $6000 — the east or entrance side intend to build next year, and also the plant houses — so that you see I am by no means idle — but if attempt too much at once, should make a fatigue of a pleasure — the museum and library, must be built after the plant houses — say in 1859 — as I intend to have anything substantial and elegant — but on a small scale, — shall commence the ornamental planting next spring — the botanical arrangement afterwards — all this and doing according to my own ideas — gathered from horticultural works &

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London, McIntosh &c — no
one here can give me the least
information ——— ———
respecting the botanical library
if you will have the goodness to
send me a list of such works as
you consider the most essential
— I will select from them what
may appear to me most useful
for the student, — As to the lu-
carium you mention of Prof Bor
ckhardt — if it is in good order you
can purchase the same at the
price you mention ($600) — I
suppose the descriptions are in
latin — for if in german they will
not be so generally usefull —
— How obtain dryed specimens
of seeds, fruits & woods of tropi

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=cul grow there as at Kew — a
good collection in this way
would be among the most in
structing and instructive things
we could have — — —
am afraid shall have diffi
-culty in meeting with an in-
structed gardener, I shall want
an intelligent energetic man
to arrange and take charge
of our accumulating treasures
-plants are like children & suf
fer from want of care & proper
treatment — this gives me more
concern than ever — for I cannot
possibly attend to the plants my
self — even if I were competent —
— I take a great and increasing
pleasure in my undertaking

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and am devoting myself
almost entirely to it — shall
have a plan made of the
grounds as well as of the whole
of my Tower Grove estate, & send
a copy to Sir W Hooker for his
inspection and advice —
With many thanks for the in-
-terest you take in the St Louis
Garden and its success

Remain Yrs truly
Henry Shaw

— I can draw an Engraved
for the cost of the Herbarium
and remit when you have
made the purchase —

Tower Grove as

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Recd Genua 12 Febr
Ans Rom 14 Apl

Tower Grove Jan 13th 1858.

Doct Engelmann

Dear Sir

Last week I received your esteemed letter from Frankfort on to day have the pleasure of receiving yours from Leipsic – when Mr Reuss presents your draft I shall duly honor the same – with many thanks for your attention in this matter – If you have not forwarded the boxes – so much the better – do not do so untill the Summer or early Autumn – and from Bremen or Hamburg to New Orleans – as the expense of express from New York would be considerable – more perhaps than you are aware – and if possible my dear Sir by all means get the dificient labels to them, perhaps the cost would be considerable but then what an advantage to have them complete – I should not regret the expense – it could not be done probably in St Louis – except by yourself – and then you will be otherwise occupied – better be done in Europe, where men of science are not so scarce

The list of Books has my best attention – and from

it have selected 34 works mostly such as you have scored – these will be as many as I wish to have at present, when we get the library & museum built in 1860 – we will make a more liberal purchase – you will observe the most costly is 730 – Duhamels traité des arbres – if you think this too much assembles Loudons arboretum – you can substitute Hum-boldts work 13/14 – I have all Loudons works except his gardners magazines 1st & 2nd series which I should very much like to have – they con-tain valuable information to persons like myself de-voted to horticulture and planting – send the books via N York – by express to St Louis – or if you have the influence through the Smithsonian insti-tution – if that would save the duties – I hope you will not be displeased at my not following in full your recommendations – Sibthorpes Flora Graeca was offered at St Louis for $200 – but no purchaser was found, so little taste is there for botanical work in the latin language –

I am employed every day in my great undertaking I may say every hour in the day – good & sub-stantial Stone & brick drains are made in every

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front of the ground, the stone wall on the west side & brick wall coped with stone on the north side are finished at a cost of 8000 Dlls – am now proceeding with entrance gate & lodge on the eastern front – which with the stone walls & iron railing I estimate to cost not much short of $10,000 – all substantial and elegant – at the same time shall commence the plant houses (150 feet) against the north wall – (one of the compartments intend for Cacti & succulent plants) also the rose-room or sunk parterre – which together with the plant houses will cost abt $5000 – these buildings with some planting of trees & shrubs, planting trees & fencing Tower Grove & Shaw Avenues, & building two brick cottages – will be my work for the present year 1858 – I enclose you a plan of the garden & the lands intended to endow the same in and now 600 acres – at the next session of our State legislature intend to apply for a charter – the assistance I want at present is a good gardener one that understands the cultivation & clipping of plants & trees – am afraid we shall not yet be prepared for the services of the gentleman you mention – a gardener such as I want ~~is~~ is not easily found – and am afraid this will be my first difficulty, a gardener cannot be made in a year or two, he must be a man of experience

Missouri Botanical Garden George Engelmann Papers

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observation, I am sorry to say the profession is sadly undervalued in America — the death of Mr Rhiel was a great loss to our horticultural science it was a gloomy day for Missouri — when he departed — the financial crisis in St Louis is in a great measure passed, our produce brings low prices, and commerce is languid, rents & wages on the decline, but as yet the mild winter & abundance of food & fuel has prevented distress among the poor of our city — Mr Barth has returned from Europe, he misses seeing you — Mr Palm I seldom see — all our business men have been very much alarmed & some seriously injured — We bk notes are two % & Ills 4% discount for gold — every one takes Ills notes, the baker the butcher & mechanic —

Your trees are about the same as to appearance, we do not syringe them, but dampen the pots occasionally with water — in small quantity — my old plant houses are now warmed with hot water pipes — a mild congenial heat & a great saving of fuel — I feel quite competent to the building of plant houses, suited to this climate — as regards construction, heating & ventilation — theoretically from books & six years experience in my private garden — To conclude I call your attention to the enclosed plans & memo^m of books — in the perusal of some of which I anticipate great pleasure — I have sent plans to Prof. Gray & Sir W Hooker — and with many thanks for your friendly exertions — remain Yrs truly

Henry Shaw

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Rec'd May 5th June

St Louis May 18th 1858

Dr. G Engelmann

Dear Sir

Your esteemed letter dated from Rome Apr 2/14 came to hand this day, and am glad to hear that you are well and on your return home – when Mess" Ruff & Co. present your draft it shall be paid at sight & many thanks for your trouble in the transaction of these affairs – I submit with due deference to the opinion of yourself & learned friends as to the labelling the plants of the Berlandi herb^m – as you suppose this is not a good season for sending it via N Orleans – after the 1st of August would be better – If not too much trouble please purchase for me –

De Candolles Prodromus –

Endlichers Enchiridium Botanicum

the Gen^a plan^m of the last named author

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with the supplement I have already &
sum of De Candolles ~~Flora~~ have late-
ly the honour of becoming acquainted
with Doct Hilgard, a learned & enthu-
siastic botanist and a pupil of yours
— he is very busy increasing his herba-
rium & carrying out his alliances —
— Professor Asa Gray was written to
saying you had kindly mentioned my
name, with plan of the garden &c — but re-
-ceived neither plants or answer to my
letter — I have sent to Vilmorin & Co for
catalogues — and shall procure seeds
of Lyminice & other agricultural seeds from
them — from a catalogue lately procured
I find Geitner of Surrey, the best nursery collec
-tion for botanical purposes, and intend
to order from them —
The spring has been very favourable for
the growth of plants & trees — abundant
moisture & free from late frosts — am

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now vigorously at work on the buildings of the Hort Bot Missouriensis — everything is being constructed in a durable manner & architectural style — your cactus plants have suffered — my forcing houses — tho at a moderate temperature, I rather think did not suit them, intend to remove them out of door in a few days — I shewed Doct Pope your list of books, but the Society was out of funds and not able to purchase —

Professor Smiley mentions in his Introⁿ to Bot — a paper that is sold in London especially for herbariums — please enquire & bring a sample of the paper & see the price mentioned in the same work

Signature removed by Mrs. Leigh for engraved plate — to be published — 11-22-79.

P.S. — Since writing yr aft in fav of Ralph &c was presented Speed

No. X

Dr. E

letter
to h
that
home
draf
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of th
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Rec'd Heidelberg
3 Aug

Glen

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Tower Grove
Aug Naples Dec 24 St Louis July 1868

Dr Geo Engelmann

Dear Sir

I received your
kind favour from N York of Ap
29th — and a short time since your
esteemed letter from Berlin — and
keep in my mind their contents
— The acer rubrum that you notice as
much cultivated in the eastern States
is a pretty maple of the same slow
growth here as acer saccharinum, our
specimens are 7 to 10 years planted &
15 to 18 ft high — intend to propagate it,
but the seeds have as yet failed to come
to maturity, as also with the acer platan-
noides, acer pseudo platanus — as also with
all our pines and abies — the largest
yucca angustifolia flowered last
month — the top of the flower stem
was 6 ft from the ground, but the
flowers not brilliant, a few seed pods

have found – the oaks from the acorns you gave us, are doing finely, and will be ready for the Quercetum next Spring, am much obliged by your information regarding "Musa eusete" – am afraid the receiving them from seed would be more than we could manage – the flowers of the Zamia remain as they were, but new leaves are putting out – our Cycas has put out new fronds and is growing vigorously I expect flowers & fruit someday – the Cacti are all blooming as usual – after the wet Spring the garden has a fine appearance, fruit generally will be a poor crop except grapes, which never looked better, – we are now suffering from drouth.

The City Council have at last passed an ordinance to provide the funds for the improvement of Tower

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the Grove Park — am sorry you can
fine not hire Doctor to take a part
er- in the great work, also regret
the absence of an English Doct
re- Pope — the growth of the trees
fain will be no speedy work owing to
lar our drought this summer, last sea
ge son was very bad and the present
as prospects no better for us and losing
ting many young trees —
ney
hut We have arranged the treasures
you left us for the Museum, we
are also getting the seeds &c sent to
had our Chamber of Commerce from the
Paris exhibition — quite a collection
ed, of agricultural seeds — Hope you
hule may meet with something interesting
ous for our Museum is yet poorly provided
— We are progressing with the new plant
ap- House — the new heating apparatus
may succeeds admirably — we hope to
r

4

have it ready to receive the few palms & our fine specimen of Pandanus — Dr Wislizenus has a small bag of seeds of the Conifers, rec'd to your address from Haag Schmidt — on looking them over find them mostly of tender sorts, such as we have tried, — our dry summers are very unfavorable for raising the pine family from seeds — I have lately found P. Pallas & abies Nordmanna quite an acquisition to our hardy sorts — hoping you are enjoying in the North German Capital the seat of the arts & sciences I remain with best wishes to Mrs E & your son

Dr Sir

Yours truly

Henry Shaw

To
Dr Geo Engelmann
Prof. Alex Braun
Kochstr 22
Berlin Prussia

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Rec'd Thurs 15th Paris

TOWER GROVE PARK,

Superintendent's Office,

St. Louis, Jan'y 24th 1869

Shaw

Dr Geo Engelmann

I was more than glad to receive your kind letter of Dec 24th from Naples, and that you are enjoying the mild climate of Southern Italy but for fine weather we have that here in perfection since the first of Jan'y — at this writing the thermo stands at 45 Fah't & the same for a week past except at night — when we have frost enough to harden the ground — the rivers are all open for navigation — nobody's ice houses are filled (except mine) — and we feel full for the fruit blossoms — Since I addressed you last, have brought the plant houses to a finish, removing those that stood against the wall & putting them in range with the Palm house, the heating apparatus answers beyond my expectations, using either coal or wood, the plants since removal are growing finely — particularly the palms Pandanus & Musa — I have received a few rare things from Haage & Schmidt — that came out in fine order and living — palms & ficus's — and am sending them a further order, comprising a great number, but small in quantity of such plants as I

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thought advisable - particularly for outdoor deco-
-ration, for we have now good dry Cellars for winter
preservation - Virgin "Vigion is included for Musa
Ensete they have seed only (3 Kom 1 Rh) - in the other
Musa's we never see seeds, the same as the pine ap-
-ple - of the Acheranthes we have the two Kinds, both
beautifull

26th - Have just returned from a two hours tour round
the park with Superintendant Tunica - to see about
laying out the drives and entrances - we are also
widening Tower Grove avenue to 80 feet - we are
not ready yet for planting - very little of that can
be done this year - some trees growing in Nursery
rows in the garden are now large enough - my expe-
-rience is altogether against planting large trees, even
after adopting all the precautions of root preparing,
heavy banding Stems, &c &c recommended, hope the lots
around will sell well, measuring abt 80 acres, shall
be disappointed if they bring less than an annual in
come of ten thousand dollars, we are applying to the
State legislature to prohibit smoke and other nuisances
within half a mile of the park - smoke is frightfully
on the increase in St Louis, even Stockyards Addition
is not exempt - our Park supply of water must be
mainly got from wells, the asylum 3400 feet &
Aqua, niente
Still boring - New water works progressing - but water

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pumped from the river must necessarily be expensive — the temperature has changed, to day abt 10 degrees of frost last night & still freezing — where the old plant houses stood against the 14 p Brick wall am preparing to plant figs having had such good success heretofore, am arranging to protect them without the necessity of bending down to the ground as heretofore, the Brown Smyrna is the kind best suited to us, both for quality and abundant bearing — have as yet made no progress with the plum — but cer-tainly with our native sorts — good results might be looked for, the Quercetum grows slowly except the red oaks — the macrocarpas fruited for the first time last fall — the young oaks from the acorns you furnished will be ready to plant this spring — have I another Quer-cetum to plant would plant seeds (say acorns) as London recommends, oaks like hickories & pecans are so checked in growth by transplanting — The pinetum also grows slow but the trees are healthy, and will some day want thinning out, pinus edulis 16 years from seed not yet 3 feet — A Engelmanni (Parry) grew on nicely last year — Doct. do think of our Cone Collection if you meet with cones of P pinaster, Laricio, Pyrenaica, Pallasiana, pumilio — excelsa, Abies orien-talis, picchta, Nordmanniana, or others you may think of 28th — I find the palms abound in synonyms, — and suspect Sabal palmetto of Haage & S's catalogue, to be the S. Blackburniana of the English catalogues — in our respect H & S's catalogue is deficient it gives no authority for names — I understand Prof Gray is gone to Europe — if so you will probably fall

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in with him – the learned Agassiz was here last October and much pleased with our garden, promised some leaves & fruit of Amazonian palms, for our Museum – when he finds leisure to assort his collection – have you read his journal or rather Mrs A's journal of their Brazilian travels – quite interesting & very fishy — the garden was visited by increased numbers the past summer, I think not less than 40 to 50 thousand, I do wish we had something more interesting & instructive for the inspection of such vast multitudes — — — The temperature still continues mild thermr 37 – at 8 o'clk this morng & at noon 45 – wind south & S East – have set more hands to work on grading & earthwork in the Park – am carrying out my own plan & design – rather presumptious, but think I have sufficient reasons for so doing – am using the strictest economy to make the appropriation of 360 thousand $ – complete the work – excessive taxes have brought on a fit of economy among the people, and very scrutinizing researches are now making in City financial departments, am apprehensive City improvements will be partly stopped – great many houses and stores for rent – at reduced rates, and new houses in the suburbs for sale – while at Naples you have visited Caserta, where are the largest Camelias I ever saw except at Charleston – Capo del Monte was my favorite resort being near the City – how different Vesuvius now – when there in 1842 – went down the crater and looked into the orifice of the volcano — – for two mornings last week had a brilliant Aurora Borealis from 5 to 6 Oclk – not seen in the city for smoke – with kind remembrance to Mrs E & the young gentlemen Yours

Hiram Shaw.

GELMANN, M. D.
3003 Locust Street.

St. Louis, Mo., Nov 11th 187

A Shaw Esq

Dear Sir

Fraxinus Americana is our common Ash, and acuminata, epiptera and the juglandifolia of some authors are considered synonyms

Besides this we have in the bottoms opposite here F. viridis, which is also called juglandifolia by some authors.

In the woods about the Falling springs Fraxinus quadrangulata occurs.

F. sambucifolia seems to be a north-eastern and F. pubescens (= tomentosa) an eastern tree; I have found neither of them here.

F. platycarpa is southern

There are several southwestern species, none of which, I believe, is yet in cultivation.

I enclose the seeds of the new Californian Lilium Parryi just received — which I hope, you will grow.

Respectfully

G Engelmann

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TOWER GROVE PARK,

Superintendent's Office,

St. Louis, Mar 25th 1879

Contents of a Box received from Dr Parry —

Agaves
7 Verschafelti
2 attenuata
1 filifera compacta
1 Bonpartea gracilis
1 Yucca flaccida?
4 Hechtia — species
4 A. Americana
1 — " — species?
2 Aloes Soccotrina?
4 — " — " Dead
2 agaves dead

} already in our collection

Cacti
1 Opuntia Curaçavica —
1 — " — species?
2 Echinocactus Texensis
2 Cereus macracanthus
1 — " — princeps
16 small Echinocactus & mammilaria
8 cactus — dead

} in collection

P.S. Please inform me what number of leaves the following plants have to a rosette —
P. Aristata
" " Contorta
" " flexilis
" " Parryi

Doct Engelmann Dr Sir — Besides the above, there are some Museum specimens of fibres, one stems — all waiting your inspection.

Yrs Ty
Jno Shaw

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