Berlin July 24th 1845

Dear Abbie

I was much delighted when the postman made his appearance on Saturday to find a letter from you as well as one from George, though I could not help lamenting upon the New House an immediate stoppage for occupying so large a portion of your epistle. Indeed so wrathful was I thereat that I have resolved by way of retaliation to omit the apologies which I intended to have made to you for not having written before. They are therefore hereby omitted. I have now been 2 months in Rammelsberg's laboratory and am well satisfied with his instruction and tolerably so with my own progress. I work every day from 2 to 6 P.M. 2 days in the week are devoted to qualitative and the remaining 4 to quantitative analysis. I have already made 4 or 5 of the latter which have been tolerably accurate considering that I am obliged to use a balance which cannot be depended upon for less than a centigramme. I have analyzed as silver furnace coin, Chabazite and several slags from furnaces which last afford very good practice. Rammelsberg himself is a little low-legged fellow of no great refinement of manners but withal a very good & careful analyst. He has been polite enough towards myself, [illegible] I believe we [illegible]

strenuously opposes the Fahl-radical theory. Before I go any further I must ask you to thank Whitney for his letter, & announcement to Rose, Rammelsberg, Schröder the bookseller and his friend Baer the Philologist. This letter were of great service to me and Baer and I are great cronies notwithstanding the dissimilitude of our professions. Rose will have a place for Whitney in the fall and I hope he will come out and join me. Rose has treated me with much kindness & attention and has several times asked me to his house in the evening and to dinner. He is a fine looking man with a true German expression of face. I have also made the acquaintance of his brother the mineralogist who is much younger, but equally distinguished in his own department. Dr Glare's letter introduced me to Poggendorff who received me very politely and showed me an apparatus which he had just finished for the purpose of measuring the conducting powers of wires &c &c. He promised to examine carefully Dr Glare's pamphlets on the Fahl-radical theory and on Dove's theory of Storms and to give me an answer in regard to publication in his journal. But I have as yet heard nothing from him who does not [illegible] seem of business and I suppose we must make some allowance for the Professor's matrimonial fetters. I took with me to his house Dr Glare's treatise on Electro-magnetism and showed him the cut of Dove's new magneto-electric machine & rather his arrangement of Page's. Poggendorff expressed much pleasure with this instrument and begged the loan of the book for one week that he might examine it at his leisure. I have not seen it since. About a month since we had a visit from Berzelius and the scientific men of the city gave him a great dinner at which I was present. I was surprised to find him so young looking a man — he certainly does not look more than 50 although he is really 66. He has a rather common face but his expression is intelligent and his eyes fine. A new portrait of him has just been published which I will send you by the first opportunity. The dinner went off much like such things with us except that the speeches were made during the dinner and not after it. The Germans are no hands at speechmaking however. Rose spoke first, after we had been seated about 10 minutes, and enumerated Berzelius' general terms without speaking of his services particularly or individually. After a short time Berzelius rose and returned thanks in a very neat little speech in German paying his words a little as the Swedes do them our languages. After this several others spoke after short intervals, Jacobi the great mathematician, Müller the physiologist, Ehrenberg, Grimm &c &c. At the end of every speech all rose and cried "hoch!" three times, clinked their glasses together and drank to Berzelius's health. The dinner lasted 3 or 4 hours and in the evening at 9 o'clock the Students in the University gave Berzelius a "Ständchen" or serenade, standing in the street in front of Rose's house where he stayed. They had hired on this occasion a band of music, though they usually only sing. After the serenade Berzelius made them a short speech from the window and then they broke up. I am glad to have seen Berzelius at last & shall probably I may hereafter see him in Stockholm again. I have not said any thing about the City because I have already written a pretty full account of it to George and because you will find in Murray's handbook a much fuller and better notice of it than I can give you in several long letters. Therefore I shall confine myself to other portions of my impressions. I have visited here Gerhardt's Chlorbenzoic workshops. the former makes the best analytical balances in Germany and perhaps in Europe — I believe through that you

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