

4/21/75  
transcription hand-  
written notes, Hiskey G

BOOK

Apology (in lieu  
of a foreword)

When people discover that I am not smoke and that I drink very rarely they always want to know what if any of my vices or addictions are. And invariably I give for their query an evasive answer. But now that I am writing this "history" attempts at concealment would no longer serve any useful purpose. The sad truth is that I am addicted to the truth.

Since my memory goes back to when I just completed my second year, a short while before my brother was born, I have no difficulty in discovering the roots of this addiction in the many tales short and long which my mother used to tell me at that age. Not ~~xxxxxxxi~~ that this clear memory is of any help as far as improving my disposition ~~in~~ is concerned.

It is impossible truthfully to record the early story of the A bomb without hurting the feelings of some of those who were involved. I am sorry about this. If it were not for my addiction I could temper the truth with kindness at least more so than is possible for me to do in the circumstances.



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I do not wish to say of course that other accounts of the "early history", those written in the past or those which may be written in the future are less truthful because they are different from mine. In 1943 Dr<sup>?</sup> Bethe from Cornell visited in Chicago and we discussed the work conducted there under the Manhattan District in which I was involved. The things that were done and even more the things that were left undone disturbed me very much particularly because I thought (quite wrongly as we now know) that the Germans were ahead of us. "Bethe" I said "I am going to write down all that is going on these days in this project. I am just going to write down the facts--not for ~~my~~ any one to read--just for God. "Don't you think God knows the facts" Bethe asked. "Maybe he does I said--but not this version of the facts--

#### Introductory Ins<sup>?</sup>ert

The outstanding ability seems to be heredit~~ary~~ in the family of Mme Curie. The ability for high class research in the field of science and, as a young girl, the ability to pick a husband who subsequently turns out to be a great scientist. Mme ~~C~~Curie married Pierre Curie; her daughter Irene Curie married Frederic Joliot. I am told Mme Curie was not particularly impressed by her daughter's choice. She used to introduce him as "The young man who married my daughter" What the young man who married her daughter did to physics and to the world has been related in the pr<sup>?</sup>ec. chapter. The invasion of France interrrupted Joliot's work on atomic energy. Fermi and I were working at that time along



similar lines. In June 1939 Joliot was ahead of us in August  
1939 we were ahead of him. But if his work had not been  
interrupted ~~na~~ he might have beaten us " "--

I am told that during the resistance movement he has joined the  
Comm. party of France which was the best organised and by far  
the strongest group within the resistance movement. I am  
also told that he is by no means a communist in the sense  
in which the word is understood in America. I do not see  
how he could be.--But I am not particularly interested in  
the political views of my colleagues nor do I see why any  
one else should be.-- Of all <sup>?</sup>physicists living his contri-  
bution were in my opinion by far the most -- original and  
significant. \_\_\_\_\_ M Fermi is a genuine scientist

There is no greater praise I could bestow on any one.  
Because he has that his interest in science is not limited  
to physics. It could not be. Repeatedly he ~~na~~ said that  
one of these days he might turn to biology perhaps. Now it  
seems doubtful that he will in fact do so. Fermi insert  
represents what is best in the scientific ~~s~~ tradition  
of Europe. How he picked it up I do not know.

Insert His most outstanding work in my opinion was  
his theory of the  $\beta$  disintegration which incidentally  
"Nature" declined to print. But that is not for what he was  
awarded the Nobel Prize.



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The struggles of our times do not affect him very much and he is no fighter. Seom<sup>2</sup> people hold this against him, they have no right to do so in my opinion.

During the war Fermi did whatever was expected of him. He gave the best advice he could and never lost his sense of ~~XXXX~~ proportions. He like all of us wanted us to win the war. But somewhere deep in his heart he knew, that it did not really matter whether we win or lose and that a thousand years of now ? a hundred years from ~~XXX~~ now people will not find it easy to understand what it was we all got so exited about.-- During the war in the Uranium proje ct we had often to fight against foolish decision<sup>2</sup> which were about to be taken and which might have lost us the war--or at least so many of [us] thought. Often we got mad. Fermi got mad too. "It makes me mad ~~xx~~--he said on one occasion--if only on the ground of considerations" Fermi is a scientist pure and simple. This position is unassailable because it is all of one peace(sic) It will surprise him if he ever~~x~~ reads this to hear me say that I agree with him and he will probably find it difficult to believe it. I doubt that he ~~xxx~~ ever understood that some people ~~have~~ live in two ~~works~~ worlds like I do. A world, and science is a part of this one in which we have to predict what is going to happen, and another world in which we try to forget these predictions in order to be able to fight for what we would want to heppen. But then how many people are able to understand the coexistence of these two separate worlds? I certainly would not understand it were it not



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for certain accidents of my education.--

Fermi and I had disagreed from the very start of our collaboration about every issue that involved not science but principles of action in the face of the approaching war. If the Nation owes us a grat~~itud~~itude--and it may not--it does so for having stuck it out together as long as it was necessary. In our

Our first disagreement was about suppressing the publication of our discovery of the neutron emission in Uranium.--

To Fermi this thought was abhorrent. He held and rightly so that the \_\_\_\_\_ publication of discoveries is a basic tenet of scientific morality. A decision and to be made quickly. Fermi and a mutual friend of course talked it over one afternoon in Washington; Fermi was outvoted. When I got back to N.Y. I found that Fermi had already taken all the necessary steps to have the publication of our papers delayed and that he had pleaded the case for the suppression of this publication very effectively. It was an example of fairness which made a great impression on me and which was fairly typical of the attitude he's often taken on subsequent occasions. I do not wish to overstress this point; there is a limit to any man's fairness and in the turmoil of the Uranium project \_\_\_\_\_ there were great provocations some of these were ~~so~~<sup>?</sup> great for Fermi but this is only my opinion. I am certain Fermi would take the opposite view/one. and where there is a controversy ~~at~~ of this sort one man's opinion is as good as another's. On matters scientific or technical there was rarely any disagreement between Fermi



and myself or the rest of us whose opinions counted in those early days. Nor was there much difference in our attitude towards those who "directed" our ~~x~~ work from Washington. "This one is wrong as wrong can be" said Fermi on one occasion. Mostly we spoke of them and "they." "If we brought the bomb to them all ready made on a silver platter there would still be a 50:50 chance that they would mess it up" he said on another.-- All this was before the Army took over. He has a very good way of making a point without using many words. "A General is a man who takes chances-- he said--mostly he takes a 50:50 chance; if he happens to win \_\_\_\_\_ times in~~x~~ succession he is considered a great general. I forget whom or what he had in mind on this particular occasion. But Fermi thought we took too great chances in the Project; on this we thoroughly disagreed. Even ~~at~~ <sup>by</sup> the middle of 1942 Fermi thought that our work had no bearing on the war and that those who thought otherwise were "sadly mistaken".--Whether he did not wish that there should be a "bomb" or whether he did not make sufficient allowances for possibilities ~~with~~ which had not yet become manifest I do not know, though as a rule whenever we disagreed the source of the disagreement had a source which lay outside of the intellectual sphere.

Of all the many occasions which I had to observe Fermi I liked him best on the rather rare occasions when he got mad (except of course when he got mad at me) A young physicist came on visit to NY and asked Fermi's help to use the ~~ELW~~



library

~~XXXXXXXXXX~~ at Columbia--Fermi talked to the librarian but she said the case had to be decided by the Central Library. Fermi called the Central Library and they made difficulties. "If we admit every one they said our libraries will be overcrowded." It was summertime there may have been 2 or 3 students loitering about in the Physics library. Fermi got mad he got mad for the right reasons, in the right degree and in the ~~right~~ right manner. Very vividly I remember that scene. Whatever grudges I might still have against Fermi I am willing [to] forgive them for the sake of this one heartwarming memory.

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In our "fights" with each ~~one~~ other I was at a disadvantage in several respects not the least because I understood him and he understood me not.--

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E. P. Wigner has no Nobel prize and he will tell you that he does not deserve one. Perhaps he is right about this but there are physicists which (with?) such universal and profound knowledge of physics, few who over a period of over 25 years remain in the forefront of Physics. He is of all physicists I know the one he [who] is most universally respected. (I mean respected by the ~~right~~ kind of people). This is due as much to the results of his work as to his character, but then work and character are inseparably connected. In the case of all these men Wigner was the conscience of the Project from its early beginning to its very



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end. His great courtesy is proverbial and there are many stories circulating about him with his politeness as the central theme. While he lived in Madison his car broke down and ~~he~~ he had it repaired in a garage. After he called for it and drove away he noticed that his tools were missing and he drove back to ask for them. There was an argument, not recorded in detail by history, after which Wigner, still without his tools, got ready to start his car saying "Go to hell please".--Sometimes he is misunderstood for if he says to a young physicist who explains to him his experiments or theories "this is very interesting" he might ~~mean the same as I do~~ mean the same as I do if I say "this sounds like God Damn nonsense to me". Most people like his courteous manner though and I have met only few who resented it saying that he is so polite because he is afraid what would happen "if you guessed what he really thinks about your paper".--Wigner as the story will show is a fighter and Smyth says "He is stubborn like a mule" A mule with Wigner's brain would have a right to be stubborn.--

I find it more difficult to write about Wigner than the others perhaps because he is one of my closest friends or at least he was that until his marriage for it is doubtful just to what extent close friendship and marriage are compatible. The pattern of loyalties shifts and gets more complicated by marriage; the Catholic church has always been aware of this. But perhaps there is also another reason for my difficulty. Wigner may be less "~~ph~~<sup>phote</sup>genic" than the others and it may have to [be] left to the "story"



itself to show his picture.

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Rewrite Wigner

Wigner I met for the first time in 1921 in Berlin. He studied chem. Eng. at that time and was about to graduate. I majored in physics and merely dabbled in chemistry but through some freak we were thrown together in the same laboratory course. He was much more advanced of course than I was and whenever my analysis did not seem to come out alright I turned to him for advice. This set the pattern of our relationship and though he was much younger than I was I used to turn to him whenever it did not seem to come out "alright" and very often it did not.--

Wigner has no Nobel Prize

H.C. Urey is a fighter and he shoots straight. He is a clear \_\_\_\_\_ and a physicist in the best sense of the word. One would think it impossible for anyone in his right senses not to like him. But Gen. Groves of the Manhattan District, Lyman J. Briggs, Director of the B. of Stand., Conant, Director of the N.D.R.C., Bush of the OSRD "they" did not like him or if "they" did "they" concealed their feelings exceedingly well.

Urey is very much of a scientist<sup>?</sup> who does not play politics and any ~~xxx~~ small time politician can dance rings around him. He is a scientist~~x~~ who does not feel at home anywhere but in science and if he is kept away from science he withers away until he can get back into his lab. and like  
recover his strength again.--



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Urey wanted to win the war, he fought, but he was honest and disinterested and so he was at a disadvantage, and most of the fights he lost. His judgement

No one's ever is. He may have taken up a position, and may have reversed himself two weeks later. In the world of science this is a virtue but no politician must reverse himself within such a short time. "They" did not like this, clearly & Urey was not one of them. Whether Urey was right or wrong the second time, little it mattered. "\_\_\_\_\_ can not work with a man who reversed himself all the time".--

The young men rallied to Urey but the "big shots" in science did not, they knew what was good for them.-- Urey was like a bull in the China-Shop and we live & in a China-Shop don't we?

After the war Urey took an interest in politics. He was one of the most powerful adversary of the May Johnson Bill and in fighting this bill he was at his best. \_\_\_\_\_

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speakers. Lately he took up a position based on a profound distrust of Russia. In this I disagree with him. Not because I have any good reason to believe that his distrust of Russia is mistaken, for all I know he might be right, but because constructive political action such as the world needs at present can not & be based on such mistrust. "Fahrlässiges Mistrauen" "unsubstantiated distrust" is the



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It seems to me that

worst sin we might commit~~xxxix~~ at this juncture of history.--  
Also when Urey talks about Russia ~~sometimes~~ I sense sometimes  
some sort of inner conflict which expresses itself in an  
attitude toward this problem and then  
I suspect that somewhere deep in his heart Urey might have  
applause of those whom he has been fighting all his life.  
But/~~who can~~ look ~~into~~ into the soul of another man and be  
sure that he is right.

Fragments to Fermi

1) I do not want to overstress this point; there may be a  
limit to any man's fairness and when the cost appears too  
high the memory gives way. There were several serious clashes  
in the project and I do not wish to imply that Fermi was not  
human.--

2) I may have some grudges against him and they might  
count for something in heaven or they might count for  
naught but I am inclined to think that "he will be forgiven  
for he 'got mad' often enough"

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Being a scientist~~s~~ does not mean that Fermi is not human.  
Those who have seen him climb a hill or play a game of tennis  
have seen that he is ambitious. Those who seem to think he  
would be a greater man if he were less ambitious might be  
mistaken; if he had been less ambitious, he might never have  
done anything of note and might have never emerged from the  
obscurity in which the millions are born, live and die.--

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Einstein is a great man and this manifests itself in any number of ways. He is a man as free from vanity as I have ever seen one. I heard him talk to an audience ~~xxxx~~ of a thousand--in German where he is at his best.--and he talked ~~xx~~ to them as he would talk to a few friends gathered at the fireside. That does not mean that he is not shy, of course. Great achievement in the field of science require a certain kind of sensitivity and sensibility leads to shyness. ~~This~~ His great fame opened all doors to him at an early age. He came into contact with many people; many who sought his company or help or advice being as shy as he is. I doubt that he

Insert here

got much pleasure ~~and~~ out of these contacts. If you meet him you are with his great modesty and his great simplicity of heart. This simplicity is perhaps the key to the understanding of his work.--In science the greatest thoughts are the simplest thoughts. He started out as an " " in the Swiss patent office. He earned there a living not dependent on giving birth to any scientific ideas great or small. When he left there one of his fellows said he was sorry to see him to: "We shall miss your laughter" he said.-- "Why don't you take a job in the Patent office Einstein told me when I just graduated . That would be best for you; it is not a good thing for a scientist to be dependent on laying golden eggs. When I workd in the Patent office, that was my best time of all.--If a



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like Einstein felt the chill of the worst compulsion to produce "results" we may well ponder whether our organized efforts to advance science take sufficiently into accounts the needs of the human soul.--

Insert earlier

Einstein may not feel at ease in your company ~~a~~ but you will feel at ease ~~ix~~ in his for he is one of those "who expect little and ~~who~~ demand nothing at all"

**P** Einstein has always taken an interest in the affairs of the world, a remote sort of interest, ready to withdraw at an instants notice into the non secular world of science. --

"One fifth of my heart <sup>?</sup> I am ready to spend on the world" he said to me once, "but 4/5 of it I retain. I could of course spend all my time buttonholing people and talk to them about the inevitable downfall of the capitalist system--if you please-- or make speeches on the streetcorner." "Maybe they would put me in ~~mail~~ <sup>j</sup> but what good would I do?" "No--he said--not everyone is as fortunate as Christ. To sacrifice yourself and do some good that takes luck."-- If you are willing to use the word ~~religious~~ <sup>?</sup> attitude in the broad sense of the term then Einstein is a religious man. To me he is a religious man in the deepest sense of the word. "As long as you pray to God and ask him for something you are not a religious man" he said to me and I share his view.--

Insert

There is one episode that comes to my mind. It was in Berlin



14  
~~ixix~~

in our Christmas<sup>?</sup> gathering of scientists, the weekly meeting of the \_\_\_\_\_ Club.-- A young member of the staff has just finished his report on certain experiments presenting data that were in conflict with one of Einstein's tentative theories.-- -Mr. Einstein--said Ne<sup>?</sup>st "do you think these data are correct"" "I think so Einstein said "the experiments seem to have been made under carefully controlled conditions." "But Mr. Einstein \_\_\_\_\_ insisted getting quite excited they do not \_\_\_\_\_ at all with the theory you<sup>?</sup> told me about two weeks ago" Einstein asked "Do you really think/God cares what I told you two weeks ago?"

Who should have known better what it takes to make science go forward than Einstein. So when after the first war the German National Science Foundation made a drive for fund ~~key~~ they arranged for a reporter to interview him. What are the most important \_\_\_\_\_ in your field of work, Mr. Einstein--the reporter asked "Oh, said Einstein, some paper and a pencil " But this was not what the reporter wanted to hear. " \_\_\_\_\_ Mr. Einstein, there must be something else that is important," he <sup>?</sup>asked. Einstein thought for a while "Yes he said something else very important--the waste paper basket." Whether the reporter ~~graxx~~ grasped the depth of Einstein's remark history does not record; more likely than not he gave up Einstein as "hopeless".-- Science Foundations thrive on funds not on wisdom, it is impossible to spend wisdom , and even to spend funds with wisdom is sometimes too difficult.--



Einstein

When the time came to go to the President; to point to ~~M~~ uranium and to say "look here this is no joke, this is serious"

I went to Einstein. He was the only man I knew who would not hesitate to act for fear he might make a fool of himself.

Insert

You feel at ease with Einstein because he is secure in himself. "I do not understand this man \_\_\_\_\_

Einstein said to me once soon after \_\_\_\_\_ He was such a \_\_\_\_\_ during the war." "I do not

understand it either, I said, he is really a great mathematician. "You know," er hat es doch nicht nötig gehabt"/said Einstein "Nötig, hat's keiner!" [After all he didn't need to." "You know, said Einstein, "Nobody needs to."]



? Records

in D 18

Could this be

Re Duffy's recording?

also records (? blank) B18



~~Handwritten scribbles at the top of the page.~~  
The war breaks out, fact, fake  
Who is going for win, Thesis No 1  
Mathematics in the stable K.P.  
one year at the ~~bad copy~~

~~Thesis No 1~~ ~~Thesis No 2~~ ~~Thesis No 3~~ ~~Thesis No 4~~ ~~Thesis No 5~~ ~~Thesis No 6~~ ~~Thesis No 7~~ ~~Thesis No 8~~ ~~Thesis No 9~~ ~~Thesis No 10~~  
~~Thesis No 11~~ ~~Thesis No 12~~ ~~Thesis No 13~~ ~~Thesis No 14~~ ~~Thesis No 15~~ ~~Thesis No 16~~ ~~Thesis No 17~~ ~~Thesis No 18~~ ~~Thesis No 19~~ ~~Thesis No 20~~  
~~Thesis No 21~~ ~~Thesis No 22~~ ~~Thesis No 23~~ ~~Thesis No 24~~ ~~Thesis No 25~~ ~~Thesis No 26~~ ~~Thesis No 27~~ ~~Thesis No 28~~ ~~Thesis No 29~~ ~~Thesis No 30~~

Back at T.H. ~~Thesis No 1~~ ~~Thesis No 2~~ ~~Thesis No 3~~ ~~Thesis No 4~~ ~~Thesis No 5~~ ~~Thesis No 6~~ ~~Thesis No 7~~ ~~Thesis No 8~~ ~~Thesis No 9~~ ~~Thesis No 10~~  
Germany 1920 to 1930 ~~Thesis No 11~~ ~~Thesis No 12~~ ~~Thesis No 13~~ ~~Thesis No 14~~ ~~Thesis No 15~~ ~~Thesis No 16~~ ~~Thesis No 17~~ ~~Thesis No 18~~ ~~Thesis No 19~~ ~~Thesis No 20~~  
Victory of Social Democrats ~~Thesis No 21~~ ~~Thesis No 22~~ ~~Thesis No 23~~ ~~Thesis No 24~~ ~~Thesis No 25~~ ~~Thesis No 26~~ ~~Thesis No 27~~ ~~Thesis No 28~~ ~~Thesis No 29~~ ~~Thesis No 30~~

The fall of Social Democrat (Braun)  
1928 Pnyodes and potatoes [The mills of the gods grind] ~~Thesis No 31~~ ~~Thesis No 32~~ ~~Thesis No 33~~ ~~Thesis No 34~~ ~~Thesis No 35~~ ~~Thesis No 36~~ ~~Thesis No 37~~ ~~Thesis No 38~~ ~~Thesis No 39~~ ~~Thesis No 40~~  
Trips to England ~~Thesis No 41~~ ~~Thesis No 42~~ ~~Thesis No 43~~ ~~Thesis No 44~~ ~~Thesis No 45~~ ~~Thesis No 46~~ ~~Thesis No 47~~ ~~Thesis No 48~~ ~~Thesis No 49~~ ~~Thesis No 50~~

First sign of trouble 1930 x [The main problem of the world] ~~Thesis No 51~~ ~~Thesis No 52~~ ~~Thesis No 53~~ ~~Thesis No 54~~ ~~Thesis No 55~~ ~~Thesis No 56~~ ~~Thesis No 57~~ ~~Thesis No 58~~ ~~Thesis No 59~~ ~~Thesis No 60~~  
What was my prognosis based on [No resistance] ~~Thesis No 61~~ ~~Thesis No 62~~ ~~Thesis No 63~~ ~~Thesis No 64~~ ~~Thesis No 65~~ ~~Thesis No 66~~ ~~Thesis No 67~~ ~~Thesis No 68~~ ~~Thesis No 69~~ ~~Thesis No 70~~  
Enter recorded, my papers packed, -

Chance meeting in Vienna  
1933 ~~Thesis No 71~~ ~~Thesis No 72~~ ~~Thesis No 73~~ ~~Thesis No 74~~ ~~Thesis No 75~~ ~~Thesis No 76~~ ~~Thesis No 77~~ ~~Thesis No 78~~ ~~Thesis No 79~~ ~~Thesis No 80~~  
Ruttenbord - Crossing Southampton

Daw - First contact date Be from  
that moment on the probability  
has crashed me - Biology or Physics -  
Being nothing in Grand Palace Hotel

I became a nuclear Physicist / Oxford,  
[The attitude to science]  
These would be: Inst, Mr. U., Trip to U.S.  
Letters to Baker, First. ~~Thesis No 81~~ ~~Thesis No 82~~ ~~Thesis No 83~~ ~~Thesis No 84~~ ~~Thesis No 85~~ ~~Thesis No 86~~ ~~Thesis No 87~~ ~~Thesis No 88~~ ~~Thesis No 89~~ ~~Thesis No 90~~  
1935  
W. Baker

talk to Weinmann ~~Thesis No 91~~ ~~Thesis No 92~~ ~~Thesis No 93~~ ~~Thesis No 94~~ ~~Thesis No 95~~ ~~Thesis No 96~~ ~~Thesis No 97~~ ~~Thesis No 98~~ ~~Thesis No 99~~ ~~Thesis No 100~~  
England accounts outside ~~Thesis No 101~~ ~~Thesis No 102~~ ~~Thesis No 103~~ ~~Thesis No 104~~ ~~Thesis No 105~~ ~~Thesis No 106~~ ~~Thesis No 107~~ ~~Thesis No 108~~ ~~Thesis No 109~~ ~~Thesis No 110~~  
It is combustible ~~Thesis No 111~~ ~~Thesis No 112~~ ~~Thesis No 113~~ ~~Thesis No 114~~ ~~Thesis No 115~~ ~~Thesis No 116~~ ~~Thesis No 117~~ ~~Thesis No 118~~ ~~Thesis No 119~~ ~~Thesis No 120~~  
Contribution with time ~~Thesis No 121~~ ~~Thesis No 122~~ ~~Thesis No 123~~ ~~Thesis No 124~~ ~~Thesis No 125~~ ~~Thesis No 126~~ ~~Thesis No 127~~ ~~Thesis No 128~~ ~~Thesis No 129~~ ~~Thesis No 130~~  
Aeroplane and the relief in progress

~~Thesis No 131~~ ~~Thesis No 132~~ ~~Thesis No 133~~ ~~Thesis No 134~~ ~~Thesis No 135~~ ~~Thesis No 136~~ ~~Thesis No 137~~ ~~Thesis No 138~~ ~~Thesis No 139~~ ~~Thesis No 140~~  
The Timor incident  
Munich in Vienna  
letter to Oxford



Final work on Indian

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Book  
the

(1) The Apology (in line  
at a foreword)

Perhaps a further stage of my apology

When people discover that I can  
not ~~stop~~ smoke and that I ~~do not~~ <sup>can't really</sup>  
~~but surely~~ ~~that~~ they always want  
to know what if any of my  
views or objections are. And  
invariably I give to their query  
an evasive answer. But to know  
that I am writing this ~~book~~ "letter"  
<sup>sketches at</sup> ~~commitment~~ would no longer  
serve any useful purpose. The  
only truth is that I am addressed  
to <sup>the</sup> truth. Since my memory goes  
back to when I ~~just~~ <sup>justly</sup> completed  
my second year, a short while  
before my brother was born I have  
no difficulty in discovering the  
various <sup>that</sup> ~~that~~ <sup>this part of</sup> ~~objections~~ in the  
many holes that and <sup>being</sup> <sup>where</sup>  
my mother <sup>used</sup> <sup>to</sup> <sup>be</sup> <sup>with</sup> <sup>me</sup> <sup>at</sup> <sup>the</sup> <sup>time</sup> <sup>that</sup>  
that <sup>she</sup> <sup>mentions</sup> <sup>at</sup> <sup>my</sup> <sup>help</sup> <sup>as</sup> <sup>far</sup> <sup>as</sup> <sup>staying</sup>  
~~is~~ <sup>concerned</sup> <sup>is</sup> <sup>concerned</sup> <sup>is</sup> <sup>concerned</sup> <sup>is</sup> <sup>concerned</sup>  
is concerned.

Regarding the ~~book~~

P It is impossible to recount the early  
the story of the ~~war~~ <sup>downfall</sup> <sup>of</sup> <sup>the</sup> <sup>empire</sup>  
and the <sup>same</sup> <sup>1911</sup>



people who were involved + I am  
sorry about this. If it may not be  
my addition <sup>to the book</sup> ~~to the book~~ <sup>at least</sup>  
~~to~~ <sup>the book</sup> ~~with~~ kindness ~~for~~  
on that is possible for me to do  
in the circumstances.

~~But that is all I should like to say~~  
I do not wish to say of course that  
other <sup>accounts</sup> ~~accounts~~ of the "early  
history" of ~~the~~ those who then in the  
past or those ~~who~~ who may be  
written in the future are less beautiful  
just because they are <sup>from mine</sup> ~~different~~  
In 1943 to make from Cornell written  
in Chicago and we discussed  
the work <sup>embodied there</sup> ~~under~~ the <sup>in which</sup> ~~the~~ <sup>is</sup> ~~is~~ <sup>involved</sup>  
The things that were done and even  
more the things that were left  
undone disturbed me very much  
particularly because I thought  
(quite wrongly as we now know)  
that the Germans <sup>were</sup> ~~are~~ ahead of us.  
"Before" I said "I am going  
to write down all that is going on  
these days in this project, not for  
any one to read ~~just~~ for the record  
I am just going to write down the facts  
- not for any one to read - just for God.  
I don't think ~~that~~ ~~any~~ ~~one~~ ~~should~~ ~~know~~



The facts" Better asked "May he  
I said - but not ~~my~~ <sup>his</sup> version  
of the facts" -

Introducing Juliet  
~~was~~ Her ~~ability~~ <sup>ambitions</sup> ~~ability~~ <sup>ambitions</sup> ~~ability~~  
seems to be hereditary in the family at  
least. The ability for ~~high~~ <sup>high</sup>  
class research in the field of science  
and <sup>as a young girl</sup> the ability to work as a husband  
who ~~subsequently~~ <sup>subsequently</sup> ~~was~~ <sup>was</sup> ~~born~~ <sup>born</sup> and  
to be a great scientist. Mme Curie  
married Pierre Curie; her daughter  
Marie Curie married Frederic Joliot  
& an old Mme Curie ~~and~~ was not  
particularly impressed by her daughter's  
choice. She used to introduce him  
"as the young man who married my  
daughter" What the young man who  
married her daughter did to physics  
and Merly to the world has been related  
in the previous chapter. The outbreak  
of the invasion of France interrupted  
Juliot's work on atomic energy.  
From and I were working <sup>at that time studying</sup> ~~along~~ <sup>along</sup> ~~with~~ <sup>with</sup>  
him. In June 1939 Juliet was abroad  
of us in August 1939 was more abroad  
at Paris. But if his work had not



but not been <sup>4</sup> interrupted he  
 might have beaten us "last" -  
 Sunday. I am told that during the  
 resistance movement he was  
 joined the Communist party <sup>of France</sup> which was  
 the best organized and strongest  
 group and by far the strongest  
 group within the resistance  
 movement. I am also told that he  
 is by no means a communist in  
 the sense in which the world is  
 understood in America; I do not  
 see how he could be. - ~~that~~

But I am not <sup>particularly</sup> interested in  
 the political views of my colleagues  
 nor do I see why any one else  
 should be. - Of all persons living  
 his country <sup>but</sup> more in my opinion by  
 far the most - original and significant.

Mr. Demmi is a genuine man with  
~~that~~ there is no greater praise I  
 could bestow on any one. ~~this subject~~

Because he is <sup>in evidence</sup> that his interest  
 is not <sup>to please</sup> limited, it could not be <sup>repeatedly</sup> he  
 repeatedly he he said that <sup>some of these days he</sup> might turn  
 to biology perhaps ~~at the right place by~~  
 as well in <sup>thoughtfully</sup> fact but ~~what he~~ the  
 I should think <sup>now</sup> it seems doubtful  
 that he will in fact do so. ~~W.A.A.~~  
~~W.A.A.~~ Form <sup>← →</sup> ~~is~~ <sup>surest</sup> ~~is~~ <sup>is</sup> what is best



in the recent of transcription of Cervoage  
 How he picked it up I do not  
 know. ~~He is a scientist and~~  
~~in a way~~ ~~of~~ ~~the~~ ~~World~~ ~~that~~ ~~he~~ ~~lives~~ ~~in~~  
 → I must think most and handling  
 work I my opinion was his ~~work~~  
 theory of the 3 observations which  
 is essentially a "Nature" declined to present  
 the ~~the~~ ~~World~~ ~~for~~ ~~the~~ ~~fact~~ ~~that~~  
~~the~~ ~~theory~~ ~~is~~ ~~not~~ ~~the~~ ~~fact~~ ~~but~~  
 the ~~fact~~ ~~is~~ ~~not~~ ~~the~~ ~~fact~~ ~~but~~  
 that is not <sup>the</sup> what he got ~~the~~ was awarded  
 The Nobel Prize #

~~the~~ ~~struggles~~ ~~of~~ ~~our~~ ~~times~~ ~~do~~ ~~not~~  
 affect him very much and he is  
 no fighter. Some people hold this  
 against him, they have no right to  
 do so in my opinion.  
 During the war Lenin did whatever  
 was expected of him. He gave the best  
 advice he could and never lost  
 his sense of proportion. He told all  
 of us wanted us to win the war.  
 But ~~there~~ ~~is~~ ~~somebody~~ ~~deep~~ ~~in~~  
 his heart he ~~was~~ ~~know~~, that it did  
 not really matter whether we win or  
 lose & that a thousand years of now



may a hundred years from now  
people will not see kind it was  
to understand why ~~we got~~ what  
it was we got so excited about. -

~~It is all of one piece~~  
It is all of one piece

knowing the way ~~was~~ in the Uranium  
project we had often to fight against  
national restrictions which were about  
to be taken and which might ~~then~~  
have lost us the war "at at least on  
many of thought. Often we got  
mad. Fermi got mad too. "It  
wasn't me mad he said on  
one occasion - it was <sup>the</sup> ~~my~~ ~~ground~~ "  
of attitude of ~~these~~ considerations  
Fermi is a scientist pure and simple  
His position is unassailable because  
it is all of one piece. It will ~~probably~~  
~~probably~~ surprise him. If he ever reads  
this to have me say that I agree  
with him and he will probably find  
it difficult to believe it. I doubt that  
he can understand that ~~of~~ ~~some~~ ~~people~~  
~~should~~ some people have in their  
minds, like I do, ~~of~~ ~~the~~ ~~world~~, ~~is~~  
and reverence is a part of this one  
in which ~~we~~ <sup>me</sup> ~~make~~ ~~production~~  
This ~~is~~ ~~the~~ ~~product~~ ~~what~~ ~~we~~ ~~do~~

by  
Fermi  
and  
me



7

in which ~~we~~ <sup>we</sup> try to forget these  
predictions in order to be able to  
fight for ~~it~~ what we would want  
to happen. But then how many ~~of~~  
people are able to understand ~~those~~  
~~these~~ ~~two worlds~~ and what their  
the coexistence of these two separate  
~~worlds~~ separate worlds? I certainly  
would not ~~think it not~~ <sup>understand it</sup> ~~base~~ <sup>were it not</sup> for certain  
accidents of my education. -

Fermi and I ~~had~~ <sup>had</sup> this agreed from the  
very start of our collaboration, on almost  
every issue that involved <sup>approaching</sup> ~~not~~ <sup>us,</sup> ~~sciences~~ <sup>in the face of the</sup> ~~but~~  
~~principles of action.~~ ~~The~~ ~~U.S.~~ ~~government~~  
~~should~~ ~~not~~ ~~be~~ ~~able~~ ~~to~~ ~~do~~ ~~as~~ ~~a~~  
great ~~deal~~ ~~of~~ ~~it~~ ~~does~~ ~~for~~ ~~having~~  
brought it out ~~to~~ ~~gether~~ ~~as~~ ~~late~~ ~~as~~  
as it was necessary. Our ~~first~~ <sup>in our</sup> ~~first~~ <sup>agreement</sup>  
~~agreement~~ was about ~~our~~ ~~progress~~ ~~of~~  
the publication of ~~the~~ ~~discovery~~ ~~at~~ ~~the~~  
mentioned ~~in~~ ~~Warman.~~ - ~~This~~  
~~was~~ ~~not~~ ~~to~~ ~~be~~ ~~done~~ ~~by~~ ~~Fermi~~ ~~his~~  
thought ~~was~~ ~~abhorrent~~, the ~~right~~  
and ~~right~~ ~~or~~ ~~that~~ ~~publication~~ ~~of~~  
his ~~work~~ ~~is~~ ~~the~~ ~~case~~, a basic ~~test~~  
of scientific morality. ~~A~~ ~~decision~~  
had to be made quickly. Fermi &  
I ~~are~~ ~~both~~ ~~a~~ ~~mutual~~ ~~friend~~ ~~of~~ ~~ours~~



talked it over with ~~the~~ <sup>me</sup> one afternoon  
in Washington; Tommi was advised.  
When I got back to N.Y. I found  
that Tommi had already taken all  
necessary steps to have the publication  
of our papers delayed and that he  
had pleaded the cure for the  
suppression of ~~the~~ <sup>his</sup> ~~these~~ publications  
very effectively ~~effectively~~ effectively.  
It was an example of business which  
made a great impression on me  
and which was ~~entirely~~ <sup>in keeping</sup>  
~~with~~ with most fairly rigorous of  
the whole list of often taken  
in subsequent occasions. I do not  
~~wish to say~~ ~~that~~ ~~he~~ ~~was~~ ~~a~~ ~~brilliant~~  
~~without~~ ~~the~~ ~~to~~ ~~carry~~ ~~the~~ ~~impression~~  
~~that~~ ~~he~~ ~~is~~ ~~a~~ ~~brilliant~~ ~~in~~ ~~shining~~  
~~among~~ ~~without~~ ~~pleasish~~ ~~wish~~ ~~to~~  
members his point; there is a limit  
to every man's fairness and in the  
hurry of the Urucian project the  
good their were great provocations  
some of these were to great for Tommi  
but this is only my opinion. I am  
more certain Tommi would take  
the opposite ~~view~~ <sup>view</sup> ~~me~~ and where  
there is a controversy <sup>at this point</sup> one man's  
opinion is as good as another's.



In matters of ~~education~~ ~~or~~ ~~technical~~  
education or technical there ~~was~~  
was rarely any disagreement between  
Lomax and myself in the rest of those  
~~phases~~ when opinions differed in those  
early days, nor was there much difference  
in our attitude towards those who  
"directed" our work from Washington.  
"They are as crazy as any man be  
said Lomax on one occasion. ~~The~~  
spoke of them at those "flays". "If  
we brought the horse to them all  
ready made on a silver platter they  
would still be a 50:50 chance that  
they would ~~manage to~~ mess it up"  
he said on another. "All this was  
all ~~about~~ ~~the~~ ~~preparation~~ ~~of~~ ~~the~~ ~~map~~  
All of that was before the Army  
took over. He has a very ~~great~~ ~~good~~  
way of ~~illustrating~~ his ~~making~~  
a point without using many words  
All general is ~~as~~ a man who takes  
chances - he said - mostly he takes a  
50:50 chance; if he happens to  
be ~~on~~ ~~the~~ ~~win~~ three times in succession  
he is considered a great general.  
I forget when or what what he had  
in mind on this particular occasion



But Ferni thought me back had great  
 chances in the Project; on this we  
 thoroughly ~~dis~~ disagreed. Even  
 by the middle of 1942 Ferni thought  
 that our work had no bearing on  
 the war and that those who thought  
 otherwise were "sadly mistaken". -  
 Whether he did not wish that  
 there should be a "crisis" or  
~~not~~ whether he did not make  
 sufficient allowances for ~~the present~~  
 possibilities which had not yet  
 been so become manifest  
 I do not know, though as a rule  
~~the~~ whenever we disagreed the  
 source of the disagreement had  
 its ~~own~~ source <sup>which</sup> ~~in a sphere~~  
 lay outside of the intellectual  
 sphere.

~~It is always a pleasure to~~

~~think~~ Of all the many occasions  
~~which~~ ~~to~~ which I had to deserve  
 from Ferni I liked him best  
 on the ~~very~~ <sup>on the various</sup> ~~occasions~~  
 when he got mad, except  
 of course when he got mad at me)  
 A young physicist came ~~to~~ on  
 visit to N.Y. and asked Ferni's  
 help to use the Physics Dept library



at Columbia. - Fanni called up  
Fanni talked to the Librarian  
but she said the case had to be handled  
by the Central Library. Fanni called  
the Central Library and they made  
difficulties. If we admit very few  
they said if our library library libraries  
will be overpowered. If we summer -  
time they may have been - or by  
students borrowing about in the  
Physics Library. Fanni got used  
he got used for the  
right reasons, in the right  
degree and in the right manner.  
I will always remember that  
some x Whenever grudges I might  
have ~~ap~~ <sup>sett</sup> ~~let~~ <sup>have</sup> against Fanni  
I am willing to ~~drop~~ <sup>forget</sup> them for  
the sake of ~~my~~ <sup>my</sup> ~~memory~~ <sup>memory</sup>

### Insert

In our "fights" with each other I was  
at a disadvantage in several respects  
and not the least because I understood  
him and he understood me not. -

E. P. Wiggins has no valid prize  
and he will tell you that he ~~is~~ <sup>is</sup> ~~not~~ <sup>not</sup> ~~deserve~~ <sup>deserve</sup>  
not deserve me. Perhaps ~~not~~ <sup>he is right</sup> because  
~~he does not deserve~~ <sup>about this</sup> ~~me~~ <sup>me</sup> but  
there are some prizes which



undervalued and unappreciated knowledge  
of Physics, few who ~~do any work~~  
~~in the production of Physics~~ - over a  
take periods of over 25 years  
remain in the forefront of Physics  
Today He is of all <sup>physicists</sup> ~~men~~ known  
the work he is most undervalued  
respected, <sup>is more respected by the right kind of</sup> this is due <sup>(people)</sup> probably to his  
work as much to his <sup>the results of his</sup> work as to  
his character, <sup>but then</sup> ~~throughout~~ ~~of course~~  
~~work~~ and character ~~unparalleled~~  
the are inseparably connected ~~it is~~  
~~very curious~~ ~~not possible~~ to the point  
of ~~power~~ in the case of all these men  
Wigner was the conscience of the Project  
from its early beginning to its very end  
Also his <sup>gentle</sup> ~~quiet~~ ~~report~~ ~~conscience~~  
is powerful and there are many  
stories circulating about him with  
his politeness as the central theme. <sup>Where</sup>  
When he lived in Madison his car  
broke down and he had it repaired  
in a garage. ~~After~~ ~~After~~ ~~he~~ ~~called~~  
~~for~~ ~~it~~ ~~in~~ After he called for it  
and drove ~~away~~ ~~away~~ ~~he~~  
noticed that his keys were missing  
and he drove back to ask for them.  
There was an argument, not recorded  
in detail by his diary, after which  
Wigner, ~~still~~ ~~without~~ ~~his~~ ~~keys~~, <sup>but</sup> ~~he~~ ~~did~~ ~~not~~ ~~find~~ ~~them~~



This year end of the story goes  
rapid in a very polite manner  
"Go to hell please" 13

to start his car saying  
"Go to hell please". - Often sometimes  
he is misunderstood for if he  
~~says~~ this is very interesting  
says to a young physicist who  
claims to him his experiments  
or Hoopes "this is very interesting"  
he might mean the same as I do  
if I say "this sounds  
like God damn nonsense to me"  
Most people like his work  
manner though and I have met  
only few who resented it because  
saying that he is so polite because  
he is afraid what would happen if  
you guessed what he really thinks  
of about your paper". - Wigner  
as the story well show is a fighter  
and as Dingle says "he is stubborn"  
says "he is stubborn like a mule"  
He would probably be willing to  
admit though that a mule with  
Wigner's brain <sup>would</sup> ~~should~~ have a  
right to be stubborn. -

I find it more difficult to ~~write~~  
write about Wigner than the others



perhaps because he is <sup>less</sup> ~~less~~ #3  
~~polytheistic~~ perhaps he is 14  
one of my closest friends & at  
least he was that until his  
marriage for it is doubtful  
just ~~how~~ ~~close~~ ~~to~~ ~~what~~ ~~extent~~  
close friendship and marriage  
are compatible. The pattern  
of loyalties shifts and gets  
more complicated by marriage;  
~~and~~ The catalytic drama has always  
been among <sup>(this)</sup> ~~us~~. But <sup>perhaps</sup> there is ~~is~~  
~~difficult~~ difficulty ~~in~~  
another reason for my difficulty  
Whyner <sup>may be</sup> ~~is~~ this "polytheistic" ~~thing~~  
~~the other~~ ~~than~~ ~~I~~ ~~have~~ ~~known~~  
~~how~~ ~~not~~ ~~share~~ ~~a~~ ~~type~~ ~~of~~ ~~an~~  
~~being~~ ~~but~~ ~~the~~ ~~story~~ ~~itself~~  
will ~~carry~~ ~~the~~ ~~his~~ ~~preference~~  
than the others and it will have  
to be for story itself ~~and~~ <sup>may</sup>  
perhaps the story itself ~~will~~  
~~represent~~ ~~his~~ ~~preference~~ —  
~~the~~ ~~a~~ ~~rather~~ ~~preference~~ ~~of~~ ~~him~~  
than the others and ~~that~~ <sup>(it)</sup> ~~may~~ ~~have~~ ~~to~~  
left to the "story" itself to show  
his preference



Remonde Wagner

15

~~Abstractian~~  
 Wagner I met <sup>him</sup> first <sup>in</sup> 1821 in <sup>Dresden</sup>  
~~he was about to be studied~~  
~~at that time and~~  
 was about to graduate. I rejoined  
 in Dresden and moved to Leipzig  
 in Dresden but through  
 some peak we were thrown  
 together in the same laboratory  
 course. ~~He was much more~~  
 advanced of course than I was  
 and whenever I my analysis  
 did not seem to come out ~~clearly~~  
 I ~~would~~ turned to him for advice.  
~~Though he was much younger than~~  
 I this set the ~~thing~~ set the  
 pattern of our relationship  
 and though he was much younger  
 younger than I was I would  
 turn to him whenever  
 it did not seem to come out  
 at all right and <sup>very</sup> often  
 it did not.

Wagner has no noble pose

U. C. May is a ~~physicist~~ <sup>the word</sup> He is <sup>the word</sup>  
~~he is a <sup>physicist</sup>~~  
 [unclear]



Walt. And moreover he is a straight  
shooter. <sup>one would think</sup> it is ~~im~~ impossible for any one  
not to ~~be~~ <sup>be</sup> ~~like~~  
in his right senses to ~~dislike~~ him.

But ~~the Director of Lynman J Downings~~  
~~member of the B. of Church. Comant~~  
~~director of the N. D. R. C. Pres of the~~  
O.S.A.D. and ~~John Jones of the~~  
~~unlike his bridge~~ <sup>they</sup> ~~did not like~~  
him or of "his" and "they" ~~celebrated~~  
~~it~~ <sup>very</sup> ~~very~~ <sup>well</sup>.

Wey is <sup>very much of</sup> ~~the~~ ~~and~~ ~~any~~ ~~politic~~  
~~and~~ ~~not~~ ~~a~~ ~~politician~~ who does not  
play politics and <sup>those small home</sup> ~~any~~ ~~politician~~ can  
~~any~~ ~~ance~~ ~~ring~~ ~~around~~ ~~him~~.

He is a scientist who does not feel at home  
anywhere except in science and if he is  
kept away from science he withers  
away until he can get back into  
his lab. and like Rubens ~~haunting~~  
earth ~~renew~~ his strength again.

Wey wanted to ~~win~~ ~~the~~ ~~war~~,  
he fought, <sup>but</sup> ~~and~~ ~~lost~~ ~~of~~ ~~the~~ ~~fight~~  
~~too~~ ~~fast~~ ~~if~~ ~~he~~ ~~was~~ ~~honest~~ ~~and~~  
~~undiscovered~~ ~~and~~ ~~in~~ ~~the~~ ~~war~~ ~~at~~  
a ~~strategic~~ ~~point~~ ~~and~~ ~~most~~  
~~of~~ ~~the~~ ~~war~~  
~~he~~ ~~was~~ ~~not~~  
His ~~inclusion~~



No one's <sup>over</sup> is. He may have taken up  
a position, ~~which was wrong~~, and  
may have reversed himself how  
much later. ~~It is not~~ In  
the world of science this is a virtue  
but no politician must reverse  
himself within such a short time. ~~It~~  
~~old~~ "they" did not take  
this, clearly they were not one of them.  
Whether ~~the~~ <sup>was</sup> right or wrong the  
ground here, little it mattered.  
You can not work with a man  
who reversed himself all the  
time. The young men called to  
they but the "big shots" in science  
did not, they knew what was  
good for them. — they were like  
a bull in the China-shop and  
one time in a China-shop don't  
me?

After the war ~~the~~ ~~big~~ they took an  
interest in politics. ~~He~~ ~~was~~ ~~one~~ ~~of~~ ~~the~~ ~~most~~ ~~important~~  
He was one of the most ~~important~~  
Advisors of the War ~~Department~~ and  
in ~~prohibiting~~ ~~the~~ ~~use~~ ~~of~~ ~~atomic~~ ~~energy~~  
last. ~~By~~ ~~suppressing~~ ~~the~~ ~~information~~  
and ~~for~~ ~~years~~  
on a ~~secret~~



creators. After a year or so  
 likely to work up a proposition  
 based on ~~his~~ <sup>an</sup> profound distrust  
 of Russia. In this I disagree  
 with him. Not because I have  
~~any evidence~~ <sup>any</sup> of good reason to  
 believe that his distrust of Russia  
 is mistaken, for all I know he  
 might be right, but because ~~no constructive~~  
~~such distrust~~ ~~does not lead to~~  
~~practical action in constructive~~  
 The constructive political action  
 such as the world needs at present  
 can not be based on such distrust.  
 Falsely <sup>the</sup> ~~mis~~ ~~trust~~ ~~of~~ ~~the~~ <sup>historians</sup> <sup>at the</sup>  
 must in we might <sup>of</sup> <sup>the</sup>  
 this structure of history - the other  
 very talks about Russia <sup>journalism</sup> <sup>press</sup>  
 some sort of inner conflict which  
 expresses itself in an <sup>ambivalent</sup>  
 attitude toward this problem <sup>and then</sup> <sup>being</sup>  
 I suggest that <sup>perhaps</sup> <sup>the</sup> <sup>deep</sup>  
 applause of those who have been  
 fighting all his life <sup>is</sup> <sup>not</sup>  
 But who can talk <sup>of</sup> <sup>it</sup>  
 if not another man  
 more that he

no constructive  
 of the world needs  
 of the  
 of the world  
 of the world  
 of the world  
 of the world







less unbroken, he might never  
have done anything at all and  
might have never emerged from  
the obscurity ~~into~~ which <sup>the</sup> millions  
of men are born, live and die.

Kindlin is a great man and that  
manifests itself in any number  
of ways. He is a man as free from  
vanity as I have ever seen one. ~~The~~  
Other I heard him talk to an audience  
at a thousand-man fair where he is  
at his best. - and he talked to them  
as he would talk to a few friends  
gathered at the fireside. That does not  
mean that he is not shy, of course.  
His <sup>great</sup> achievement in the field of science  
requires a certain kind of nervousness  
and nervousness leads to shyness. His  
great fame opened all doors he led in at  
<sup>an early age</sup>  
he came into contact with many  
people, many before and his  
company or <sup>help or</sup> advice to being as shy  
as he is. I don't <sup>think</sup> he got <sup>much</sup>  
pleasure out of these contacts  
If you <sup>never</sup> meet him you may <sup>think</sup>  
with his great modesty and <sup>simplicity</sup>  
of ~~his~~ <sup>his</sup> ~~life~~ <sup>life</sup>. This simplicity is



is perhaps the key to the  
understanding of his work. -  
In science the greatest thoughts  
are the most distant thoughts.

He started out as ~~state~~ an "examined"  
in the Swiss patent office. He earned there  
a living not dependent on ~~studies~~ ~~studying~~  
further to any extent ~~the~~ ideas great  
or small. When he left ~~there~~ <sup>there</sup> to  
~~one of a fellow~~ <sup>his</sup> ~~collage~~ <sup>fellows</sup> ~~of his~~ <sup>to</sup> ~~visit~~ <sup>see</sup> ~~to~~ <sup>with</sup> ~~him~~ <sup>you</sup> ~~he~~  
said "I shall miss your best  
thoughts" he said. - "Why don't you  
have a job ~~in~~ <sup>in</sup> the Patent office  
Einstein told me <sup>when I just graduated</sup> that would be best  
for you; it is not a good thing for  
a scientist to ~~be~~ <sup>to be</sup> ~~dependent~~  
on trying golden eggs, when I  
worked in the Patent office, that  
was my best income of all. - If a  
~~man as gifted as~~ <sup>at</sup> ~~you~~ <sup>Einstein</sup> ~~when~~ <sup>with</sup> ~~the~~ <sup>their</sup> ~~parts~~ <sup>gifts</sup> ~~have~~ <sup>to</sup> ~~been~~ <sup>like</sup> ~~provided~~ <sup>Einstein</sup>  
felt the frustration of the ~~unfulfilled~~  
desire to ~~be~~ <sup>to</sup> ~~produce~~ <sup>produce</sup>  
"results" ~~is~~ <sup>is</sup> ~~not~~ <sup>not</sup> ~~to~~ <sup>to</sup> ~~be~~ <sup>be</sup> ~~done~~ <sup>done</sup>  
one may well wonder whether our  
organized efforts for advance  
science ~~are~~ <sup>are</sup> ~~not~~ <sup>not</sup> ~~being~~ <sup>being</sup> ~~lost~~ <sup>lost</sup>  
in the ~~sea~~ <sup>sea</sup>.



take <sup>myself</sup> into account account 22  
the needs of the human soul.

of Swift criticism  
Emerson may not feel at ease  
in your eyes can you but you will  
feel at ease in his for he is one  
of those "who expect little and  
demand nothing" at all <sup>interest</sup>

Emerson has always taken an interest  
in the affairs of the world, a remote sort  
of interest, ready to withdraw at an instant  
unless into the non secular world of  
science. "One people of my heart" I  
am ready to spend on the world he  
~~says~~ <sup>to me</sup> said I had 4/5 of it I  
own. ~~he said to me~~ I could at  
times spend all my time with  
people and talk to them about the  
inevitable ~~downfall~~ downfall of the  
capitalist system - if you please -  
~~do~~ or make speeches on the  
"street corner" they would  
put me <sup>not</sup> ~~with~~ ~~me~~ but what good  
would that do? "No - he said" you not  
everyone is as <sup>fortunate</sup> ~~lucky~~ as Christ.  
He would save himself and do  
some good that takes back.

If you are willing to use the  
word religious ~~at~~ <sup>in</sup> the broad



sense of the term then Einstein <sup>is</sup>  
is a religious man. ~~But~~ <sup>He</sup>  
me he is a religious man in the  
strongest sense of the word.

"As long as you ~~ought to ask~~  
~~find for something~~ when you  
may be glad and ~~to ask him~~  
for something you are not  
a religious man -" he said to  
me and I show his view - ~~Being~~  
~~free of prejudice he says find when~~  
~~he means find and he does not have~~  
~~take~~

~~the~~ ~~view~~.  
There is one episode that comes  
to my mind. It was in Paris  
in an illustration gathering at  
the meeting, ~~the~~ ~~meeting~~ <sup>the meeting</sup>

the meeting of the Journal Club -  
A young member of the Staff  
has just finished his report on  
certain experiments presenting  
data that were in ~~agreement~~ <sup>contrast</sup> with  
one of Einstein's ~~contributions~~ <sup>theories</sup>.

- Mr Einstein - said "Do you think  
these data are correct?" ~~What do you think~~  
"Well yes", I think Mr Einstein  
said "But the experiments seem to  
have been made under carefully  
controlled conditions." But Mr Einstein







~~reporter grasped the depth~~

Whether the reporter grasped the depth of the <sup>question</sup> ~~research~~ history does not record; more likely than not he gave up thinking as "hopeless". -

Science Foundation there are funds not an ~~unwisdom~~ <sup>wisdom</sup>; it is impossible to spend wisdom, and to men to spend the funds with <sup>sometimes</sup> wisdom is that difficult. -

Emerson

When the time came to go to the President; and so he pointed he unreason and he say, "Look here this is no joke, this is serious" I want to know. I know of no one at that time (and I would ~~have~~ know of no one today) ~~man~~ who would do it because ~~we~~ we would be so afraid of ~~making~~ a part of himself. He was the only man I ~~know~~ know who would not hesitate ~~to do~~ <sup>to do</sup> because he might make a part of himself.



Answer

I am ~~sure~~ feel at ease ~~because~~ <sup>because he</sup>  
 Einstein is secure in himself. <sup>By</sup> ~~him~~  
~~My name said Einstein to me never after~~  
 the first world war. "I do not understand <sup>him</sup> <sup>his</sup> <sup>1918</sup>  
 this man Richard (he was such a draughtman <sup>man</sup> <sup>1918</sup>  
 during the war." "I do not understand it  
 either, I said, he is really a great ~~math-~~  
 mathematician, but <sup>such</sup> <sup>is</sup> <sup>not</sup> <sup>really</sup> <sup>parallel</sup> <sup>to</sup>  
~~the man he~~ said Einstein, <sup>was</sup> <sup>not</sup> <sup>parallel</sup> <sup>to</sup>  
 I am sure