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Leo Baekeland Diary Volume 2, 1908

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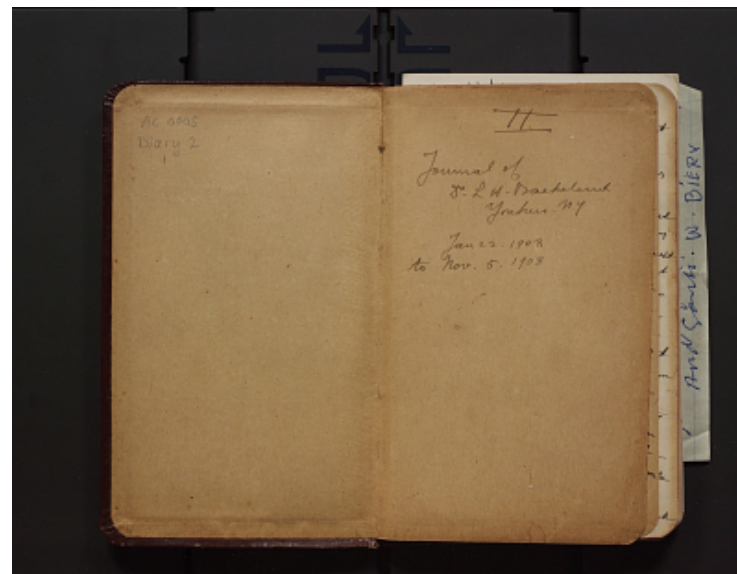
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Front & back cover of book
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[[on spine]] 2 [[/underlined]]
June
23
1908 [[/underlined]]
Nov
5
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Leo Baekeland Diary Volume 2, 1908
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AC 0005
Diary 2
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||
Journal of
Dr L. H. Baekeland
Yonkers, NY
Jan. 23 1908
to Nov. 5 1908



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1908

1

Jan 23. Busy in the morning at the works

Hooker

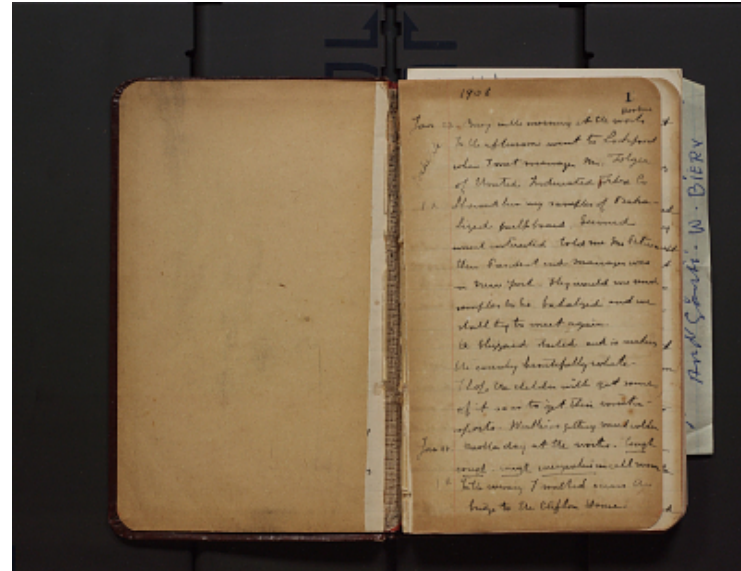
In the afternoon went to Lockport where I met manager Mr. Folger of United Indurated Fibre Co. Bakelite 1 X Showed him my samples of Bakalized pulpboard. Seemed much interested told me Mr Peterson their President and Manager was in New York. They would me send samples to be bakalized and we shall try to meet again.

A blizzard started and is making the country beautifully white. I hope the children will get some of it so as to get their winter - sports. Weather is getting much colder

Jan 24. Another day at the works.

cough cough cough everywhere in cell room

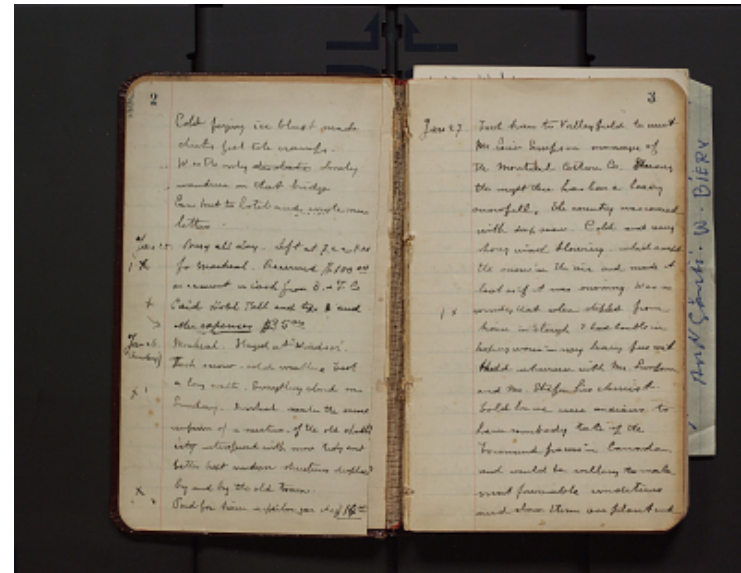
1 X In the evening I walked across the bridge to the Clifton House.



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2
 Cold freezing ice blast made cheeks feel like cramps.
 Was the only ~~desolate~~ lonely wanderer
 on that bridge. Came back to hotel and wrote some letters
 Jan 25. 1 X Busy all day. Left at 7.22 PM for
 Montreal. Received \$100.00 on account in cash from D & T. Co
 X [with arrow to the expenses line below] Paid Hotel
 Bill and tips ~~3~~ and other expenses
\$ 35.00
 Jan 26 (Sunday) Montreal. Stayed at "Windsor".
 Fresh snow - cold weather. Took a long walk. Everything closed on
 Sunday.
 X 1 Montreal makes the same impression of a
 mixture of the old shabby city interspersed with more tidy and better
 kept modern structures displaced by and by the old town.
 X Paid for train & parlor car etc \$14.00
 [end page]

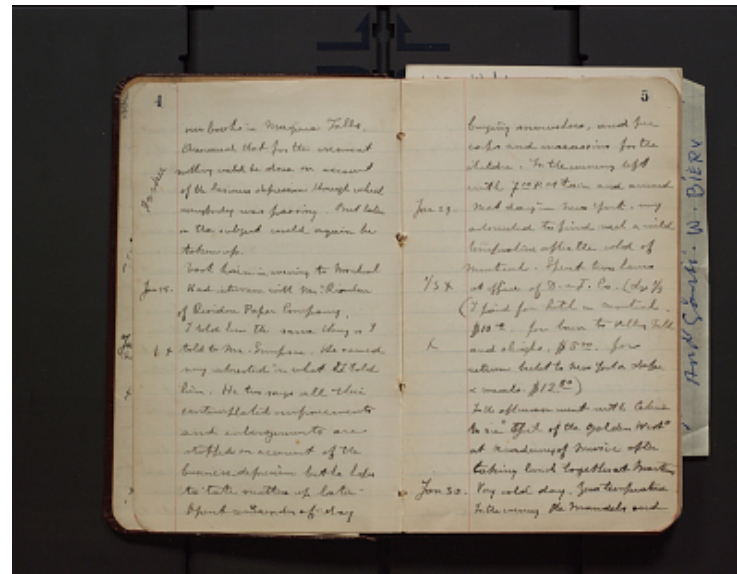
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 3
 Jan 27. Took train to Valley Field to meet Mr. Louis
 Simpson manager of the Montreal Cotton Co. During the night there
 has been a heavy snowfall. The country was covered with deep snow.
 Cold and very strong wind blowing, which swept the snow in the air and
 made it look as if it was snowing. Was so windy that when stepped from train in sleigh I had trouble in
 keeping warm in my heavy fur coat.
 Had interview with Mr. Simpson and Mr. Schäfer his chemist. Told him
 we were anxious to have somebody take up the Townsend process in
 Canada and would be willing to make most favorable conditions and
 show them our plant and
 [end page]



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 our books in Niagara Falls. Answered that for the moment
 nothing could be done on account of the business depression through
 which everybody was passing.
 Hooker
 But later on the subject could again be taken up.
 Took train in evening to Montreal
 Jan 18. Had interview with Mr. Riordon of Riordon
 Paper Company. I told him the same thing as I told to Mr. Simpson.
 1 x
 He seemed very interested in what I told him. He too says all their
 contemplated improvements and enlargements are stopped on account
 of the business depression but he hopes to take matters up later. Spent
 remainder of day
 [[end page]]

[[start page]]
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 buying snowshoes, and fur caps and mocassins for the children. In the
 evening left with 7:10 P.M. train and arrived next day in New York.
 Jan 29. very astonished to find such a mild
 temperature after the cold of Montreal. Spent two hours at office of D. &
 F. Co. (chg 1/3
 1/3 x
 (I paid for hotel in Montreal. \$10.00. for train to Valley Field and sleighs.
 \$5.00. for return ticket to New York a sleeper & meals \$12.80)
 x
 In the afternoon went with Celine to see "Girl of the Golden West" at
 Academy of Music after taking lunch together at Martins.
 Jan 30. Very cold day. Zero temperature.
 In the evening the Mandels and
 [[end page]]



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the Brandis were here for supper. We had a jolly party singing and fun making.

Jan. 31. Still colder weather but no wind and very bright atmosphere. Thermometer mark - 17 C.

I went to New York for interview with Anthony, Brock, and Seabury of ~~Loander P~~ Boonton Rubber Co. on the subject of a license for the use of Bakelite.

Boonton Rubber option on Bakelite

Met at lawyers club. I agreed with them to give them an option until March 16. For the following arrangement I will give them exclusive use of Bakelite for moulding purposes not including construction of dynamo motors or other coils, not including Bakelized

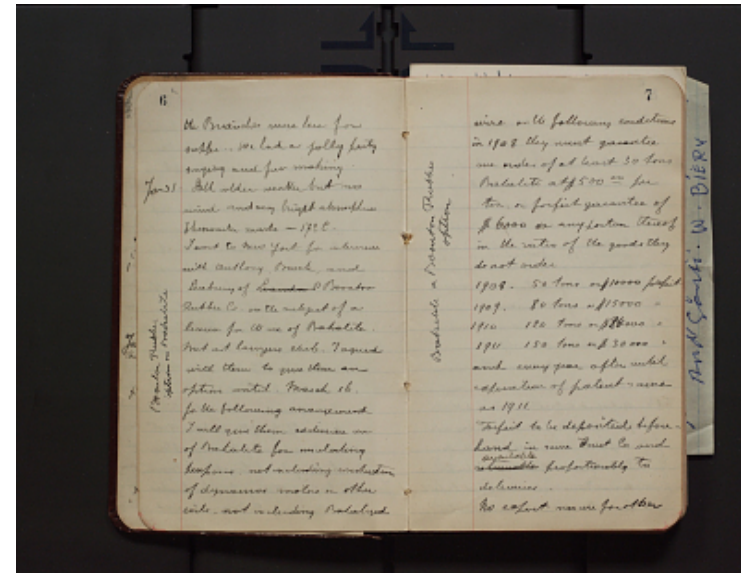
7

wire on the following conditions in 1908 they must guarantee me order of at least 30 tons Bakelite at \$500.00 per ton or forfeit guarantee of \$6000 on any portion thereof in the ratio of the goods they do not order.

Bakelite & Boonton Rubber option

1908	50 tons or \$10000 forfeit
1909	80 tons or \$15000 "
1910	120 tons or \$24000 "
1911	150 tons or \$30000 "

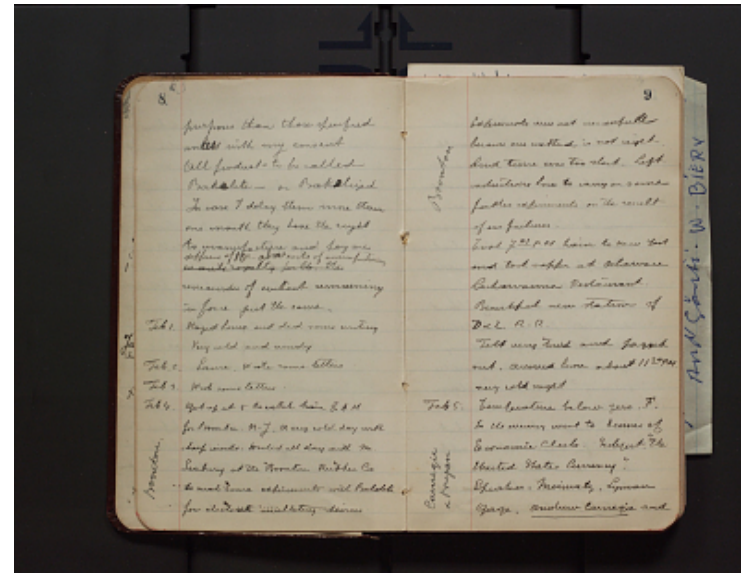
and every year after until confirmation of patent same as 1911.
 Forfeit to be deposited beforehand in some Trust Co. and ~~returnable~~ available proportionately to deliveries.
 No export nor use for other



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purposes than those specified
 with my consent
 all products to be called
 Bakelite - or Bakelized.
 In case I delay them more than one month they have the right to manufacture and pay me ~~10~~ cents royalty per lb. the difference of 10 c. above costs of manufacturing remainder of contract remaining in force just the same.
 Feb 1. Stayed home and did some writing. Very cold and windy.
 Feb. 2. Same. Wrote some letters.
 Feb 3. Wrote some letters.
 Feb 4. Got up at 5 to catch train 8. AM for Boonton N.J. A very cold day with sharp winds.
 Boonton
 Worked all day with Mr. Seabury at the Boonton Rubber Co to make some experiments with Bakelite for electrical insulating devices
 Boonton
 Experiments were not successful because our method is not right and time was too short. Left instructions how to carry on some further experiments on the result of our failures.
 Took 7.01 P.M train to New York and took supper at Delaware Lackawanna Restaurant. Beautiful new station of D & L. R.R.
 Felt very tired and fagged out. Arrived home about 11.30 P.M. very cold night.

Feb 5.
 Temperature below zero F. In the evening went to dinner of Economic Club. Subject "The United States Currency".
 Carnegie & Bryan Speakers. Moriwetz. Lyman Gage. Andrew Carnegie and



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Bryan. All people I had never seen before. Carnegie a ~~small~~ little man with white hair and white beard. Gets very animated in his speech; altho' he had a wizened looking face, sometimes when carried away with what he says, looks rather boyish altho' he is seventy years old.

Bryan reminds me of Elbert Hubbard, but somewhat stouter. Excellent voice, fine delivery, good arguments. He carried the evening.

Tremendous applause. After it was all over I met Dean Sage who was red hot mad for what he called all the "rot" and "rank heresies" of Bryan and to which I ~~have~~ and others had listened and

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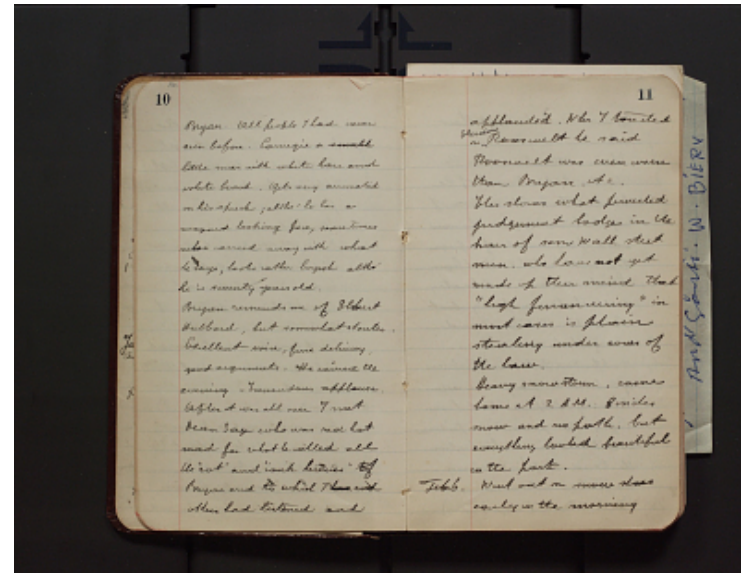
applauded. When I touched on [^][Theodore] Roosevelt he said Roosevelt was even worse than Bryan, etc.

This shows what perverted judgement lodges in the hair of some Wall Street men, who have not yet made up their mind that "high financing" in most cases is plain stealing under cover of the law.

Heavy snow storm, came home at 2 A.M. 8 inches now and no path but everything looked beautiful in the park.

[[margin]] Feb. 6. [[/margin]]

Went out on show shoes early in the morning



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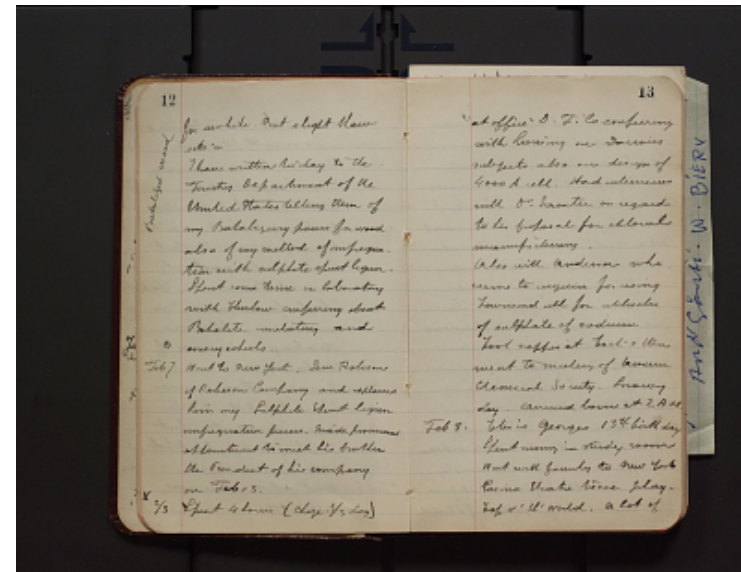
for awhile. But slight thaw sets in. Bakelized wood I have written today to the Forestry Department of the United States telling them of my Bakalizing process for wood also of my method of impregnation with sulphite spent liquor. Spent some time in laboratory with Thurlow conferring about Bakalite insulating and emery wheels.

Feb 7
 Went to New York. Saw Robeson of Robeson Company and explained him my Sulphite Spent liquor impregnation process. Made provisional appointment to meet his brother the President of his company on Feb 13.

X 2/3
 Spent 4 hours (chg 2/3 day)

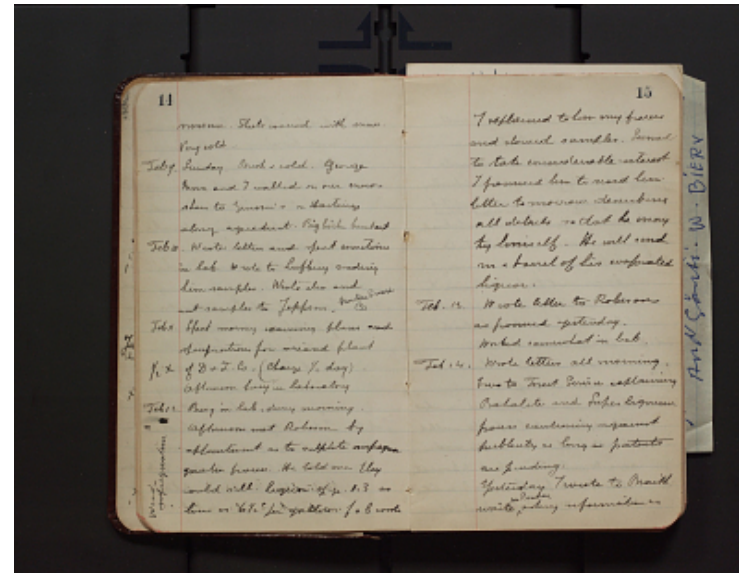
at office D. F. Co. conferring with Lansing on various subjects also on design of 4000 A cell. Had interviews with Dr. Samtec in regard to his proposal for chloral manufacturing. Also with Anderson who came to inquire for using Townsend cell for utilisation of sulphate of sodium. Took supper at Tach's then went to meeting of American Chemical Society. Snowy day. Arrived home at 2 AM.

Feb. 8
 This is Georges 13th birthday. Spent morning in study room. Went with family to New York Casino Theatre to see play - Top o' th' world. A lot of



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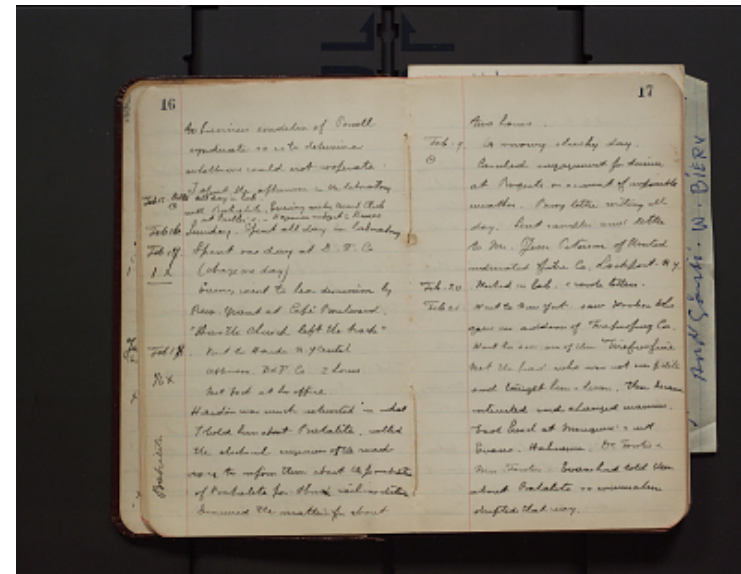
[[preprinted]] 14 [[/preprinted]]
 nonsense. Streets covered with snow. Very cold.
 [[margin]] Feb 9. [[/margin]]
 Sunday. Brisk & cold. George, Nina and I walked on our snowshoes to Zinsser's on Hastings along aqueduct. Big boiler burnt out.
 [[margin]] Feb 10. [[/margin]]
 Wrote letters and spend sometime in lab. Wrote to Lufberg sending him samples. Wrote also and sent samples to Jeppson. Norton Emeri Co.
 [[margin]] Feb 11. [[/margin]]
 Spent morning examining plans and specifications for increased plant of D & F Co. (charge 1/2 day)
 [[margin]] 1/2 x [[/margin]]
 Afternoon busy in laboratory
 [[margin]] Feb 12. = wood impregnation [[/margin]] Busy in lab during morning. Afternoon met Robeson by appointment as to sulphate impregnation process. He told me they could sell liquor sp gr. 1.3 as low as 6 1/2 ^c per gallon f o b work
 [[end page]]
 [[start page]]
 I explained to him my process and showed samples. Seemed to take considerable interest. I promised him to send him letter tomorrow describing all details so that he may try himself. He will send in a barrel of his evaporated liquor.
 [[margin]] Feb 13. [[/margin]]
 Wrote letter to Robeson as promised yesterday. Worked somewhat in lab.
 [[margin]] Feb 14. [[/margin]] Wrote letters all morning. Two to Forest Service explaining Bakalite and Super lignum process cautioning against publicity as long as patents are pending.
 Yesterday I wrote to [[Braith?]] Waite ^[in London] asking information as



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 to business condition of Powell syndicate so as to determine whether we could not cooperate.
 I spent the afternoon in the laboratory.
 [[margin]] Feb 15 [[symbol: circle with dot]] [[/margin]] Ditto all day in the lab]]
 with Bakalite. Evening meeting Anvil Club at Butlers - Hagerman subject = Homes.
 [[margin]] Feb 16 [[/margin]] Sunday. Spent all day in laboratory.
 [[margin]] Feb 17 [[/margin]] Spent one day at D. F. Co
 [[margin]] 1X [[/margin]] (charge one day)

Evening went to hear discussion by Rev. Grant at Cafe Boulevard. "Has the Church left the track"
 [[margin]] Feb 18 [[/margin]] Visit to Hardin N.Y. Central Afternoon. D.&F. Co. 2 hours
 [[margin]] 1/6X [[/margin]]
 Met back at his office.
 Hardin was much interested in what I told him about Bakalite, called the electrical engineers of the road so as to inform them about the possibilities of Bakalite for third rail insulation. Discussed the matter for about
 [[margin]] Bakelite [[/margin]]
 [[end page]]
 [[start page]]
 [[preprinted]] 17 [[/preprinted]]
 two hours.
 [[margin]] Feb 19. [[/margin]] A snowy slushy day.
 [[margin]] [[symbol: circle with dot]] [[/margin]] Canceled engagement for dinner at Bogerts on account of impossible weather. Busy letter writing all day. Sent samples and letter to Mr. Jesse Peterson of United Indurated Fibre Co. Lockport. NY.
 [[margin]] Feb. 20 [[/margin]] Worked in lab. < wrote letters.
 [[margin]] Feb 21. [[/margin]] Went to New York saw Woolson who gave me addresses of Fireproofing Co. Went to see one of their Fireproofine. Met the head who was not over polite and taught him a lesson. Then became interested and changed manners. Took lunch at Mouquin's with Evans Habermann, Dr. Forster & Mrs. Forster. Evans had told them about Bakalite so conversation drifted that way.
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18 went to D. & F. Co but only very short time then met Parker at his office and told him my interview with Nichols and superficial report of Wigglesworth. Told him also about Bakalite and Super lignium.

Evening Supper at the Lotus Club as guests of Evans with Haberman. Afterwards meeting at Club. of Soc. Chem. Industry.

Feb 22. Read some books and wrote some letters. A rather slow and inactive day.

Feb 23. (Sunday) Remained indoors all day reading & writing.

I wish I saw a chance for taking a few days off in changed environment. I begin to feel less active less enthusiastic. I am afraid several

months incessant grinding begin to show influence.

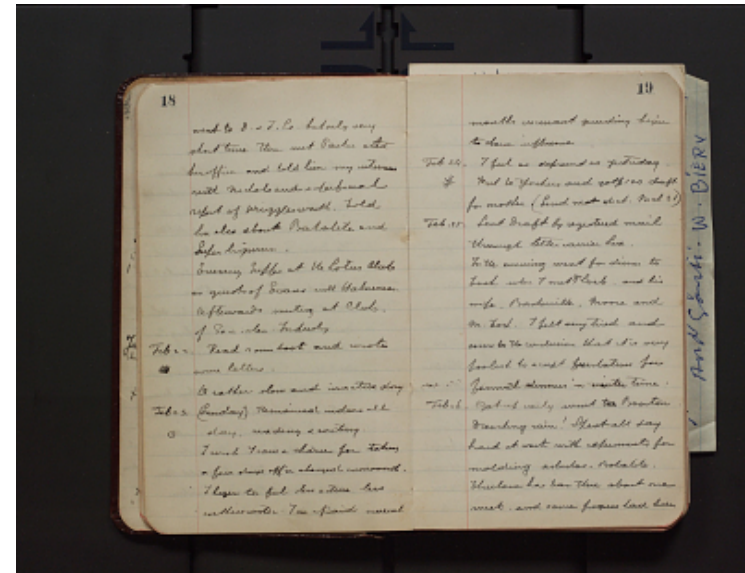
Feb 24. I feel as depressed as yesterday.

Went to Yonkers and got \$100 draft for mother (Send next check Mch 31)

Feb 25. Sent Draft by registered mail through letter carrier here. In the evening went for dinner to Toch where I met Dr Loeb and his wife. Baskerville, Moore and M. Toch. I felt very tired and came to the conclusion that it is very foolish to accept invitations for formal dinners in winter time.

Feb 26. Got up early went to Boonton. Drenching rain! Spent all day hard at work with experiments for molding asbestos - Bakalite.

Thurlow has been there about one week and some progress had been



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made in certain directions. in other ones he is on the wrong track. From what I did I believe I can simplify all this. Came home late and very tired.

Feb 27. Work letters and put my notes in shape. Evening motored to Mr Evans for supper with Celine. Beautiful white snow.

Feb 28. Worked all day in laboratory and had some very interesting results. Thurlow was not there.

Feb 29. A very busy day in laboratory until late some more very interesting results.

March 1. Busy all day in laboratory. Thurlow came at noon for one hour to fetch material for going tomorrow to Norton Co. I communicated him my results. Seems rather stubborn in his ways of thinking. I shall convince him that he has been all along on wrong track with his one hour A

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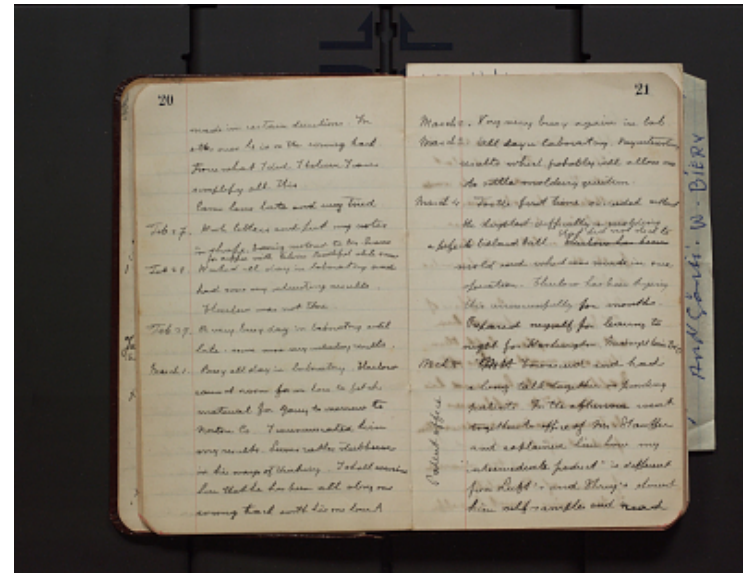
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March 2. Very very busy again in lab.

March 3. All day in laboratory. Very interesting results which probably will allow me to settle molding question.

March 4. For the first time succeeded without the slightest difficulty in molding a perfect billiard ball that did not stick to mold and which was made in one operation. Thurlow has been trying this unsuccessfully for months. Prepared myself for leaving to night for Washington. Midnight train B & O

Mch 5. Met Townsend and had a long talk together on pending patents. patent office In the afternoon went together to office of Mr. Stauffer and explained him how my "intermediate product" is different from Luft's and Storey's showed him self sample and read



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him extracts of my foreign applications enumerating these differences. He said that under these conditions he would withdraw his objection to my claims provided we wrote him a letter setting forth the arguments presented to him.

U.S. Patent Office

Afterwards went to office of Dr. Seaman showed him all my samples, left them there over night in his office. Explained to him and his assistant the differences between various condensation products of phenol and formaldehyde and the manufacture of Bakelite.

In the evening went for supper

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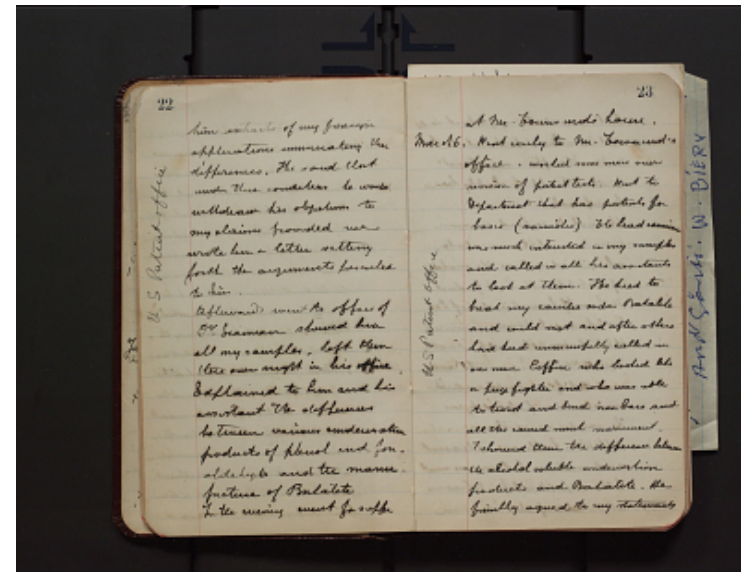
at Mr. Townsend's house.

Mar 16

Went early to Mr. Townsend's office. worked some more over revision of patent tests. Went to Department that has patents for bases (varnishes). The head examiner was much interested in my samples and called in all his assistants to look at them. He tried to break my caustic soda Bakelite and could not and after others had tried unsuccessfully called in

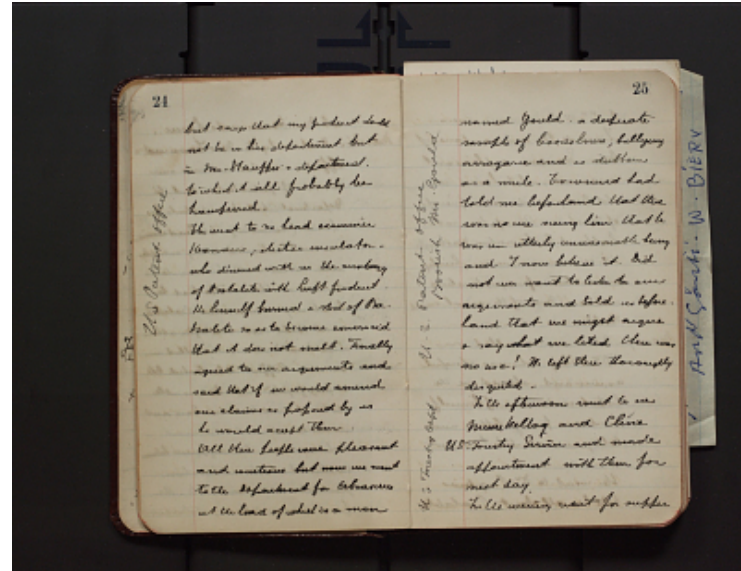
U.S. Patent Office

one man Coffin who looked like a prize fighter and who was able to twist and bend iron bars and all this caused much merriment. I showed them the difference between the alcohol soluble condensation products and Bakelite. He finally agreed to my statements



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 but says that my product should not be in his department but in Mr. Stauffer's department to which it will probably be transferred.
 US Patent Office
 Then went to see head examiner Keenan; electric insulator - who discussed with us the make up of Bakelite with Luft product. He himself burned a stick of Bakelite so as to become convinced that it does not melt. Finally agreed to our arguments and said that if we would amend our claims as proposed by us he would accept them.
 All these people were pleasant and courteous but now we went to the Department for Abrasives at the head of which is a man
 25
 named Gould, a desperate sample of boorishness, bullying, arrogance and as stubborn as a mule. Townsend had told me beforehand that there was no use seeing him that he was an utterly unreasonable being and I now believe it. Did not even want to listen to our arguments and told us beforehand that we might argue or say what we liked there was no use! We left there thoroughly disgusted.
 U.S. Forestry Dept
 In the afternoon went to see Messrs. Kellog and Cline US. Forestry Service and made appointment with them for next day.
 In the evening went for supper



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to Dr. W. H. Seaman were I made the acquaintance of Mrs. Seaman a pleasant, white haired intelligent old lady and some friends of them of New Hampshire who happened to be visiting Washington. A very agreeable evening, lively conversation of very interesting nature. None of the usual small talk.

March 7

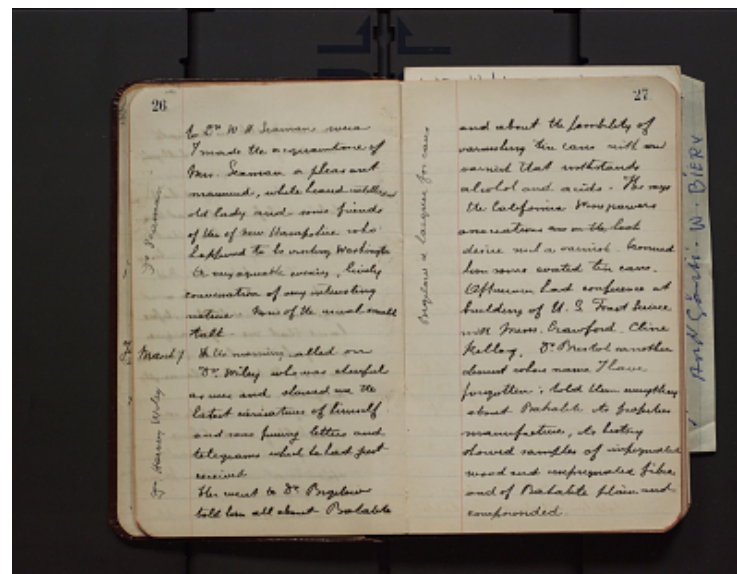
Dr. Harvey Wiley

In the morning called on Dr. Wiley who was cheerful as ever and showed me the latest caricatures of himself and some funny letters and telegrams which he had just received. Then went to Dr. Bigelow told him all about Bakalite

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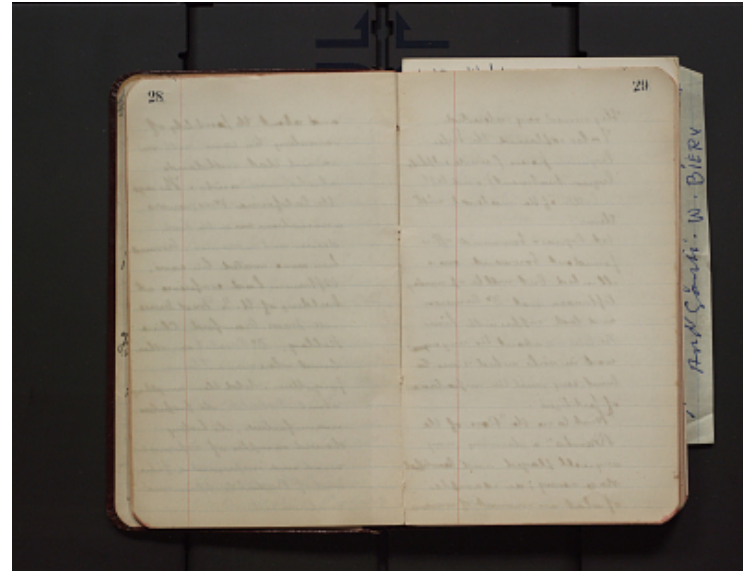
Bigelow & lacquer for cans

and about the possibility of varnishing tin cans with our varnish that withstands alcohol and acids. He says the California Winegrowers associations are on the look desire such a varnish. Promised him some coated tin cans. Afternoon had conference at building of U.S. Forest Service with Messrs. Crawford, Cline, Kellog, Dr. Bristol, & another chemist whose name I have forgotten; told them everything about Bakalite, its properties, manufacture, its history. Showed samples of impregnated wood and impregnated fibre and of Bakalite plain and compounded.



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They seemed very interested.

I also explained the Superlignum process (waste sulphite liquor treatment) and left a bottle of the material with them.

At Byrnes & Townsend office found out Townsend was ill in bed but will be up Monday. Afternoon met Dr. Cameron and took supper with him. He told me about his very original work in soils which seems to limit very much the importance of fertilizers.

[[margin]] In Washington [[/margin]]

Went to see the "Rose of the Rancho" a charming way very well played and beautiful stage scenery; an example of what an amount of romance

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can be found in the history of this country.

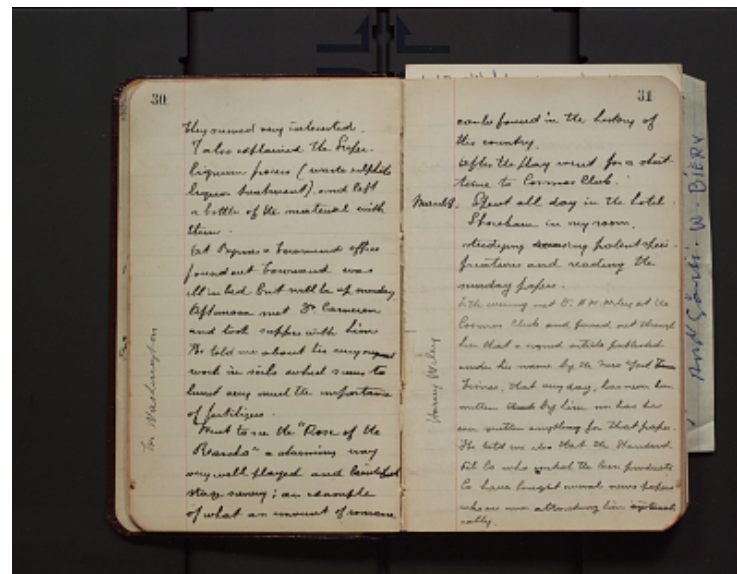
After the play went for a short time to Cosmos Club.

[[margin]] March 8 [[/margin]] Spent all day in the hotel Shoreham in my room, studying revising patent specifications and reading the Sunday papers.

[[margin]] Harvey Wiley [[/margin]]

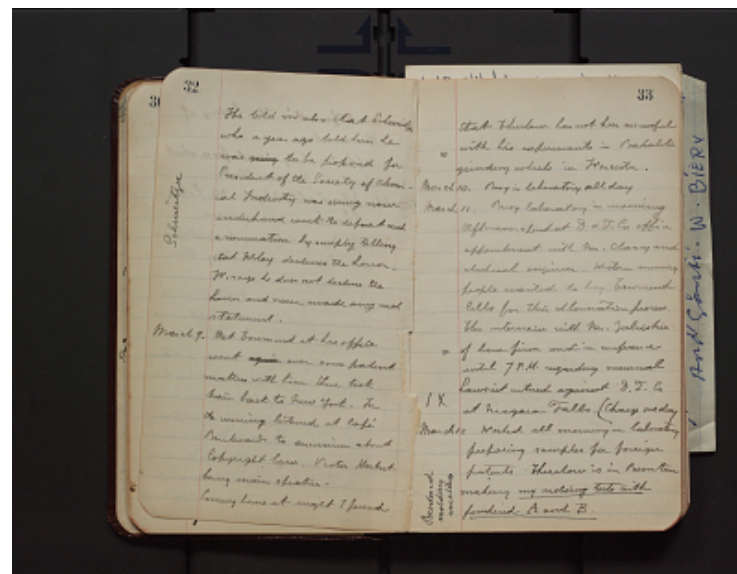
In the evening met Dr. H. W. Wiley at the Cosmos Club and found out through him that a signed article published under his name by the New York ~~Times~~ Times, that very day, has never been written ~~that~~ by him nor has he ever written anything for that paper. He told me also that the Standard Oil Co who control the Corn products Co have bought several news papers who are now attacking him systematically.

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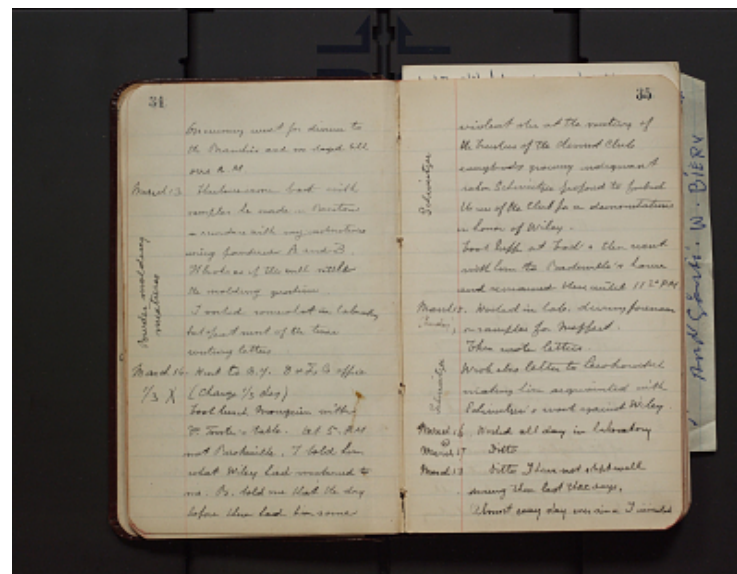
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 He told me also that Schweitzer who a year ago told him he was going to be proposed for President of the Society of Chemical Industry was doing now underhand work to defeat such a nomination by simply telling Schweitzer that Wiley declines the honor. W. says he does not decline the honor and never made any such statement.
 March 9. Met Townsend at his office went again over some patent matters with him then took train back to New York. In the evening listened at Cafe Boulevard to discussion about copyright law. Victor Herbert being main speaker.
 Coming home at night I found
 33
 that Thurlow has not been successful with his experiments in Bakelite grinding wheels in Worcester.
 March 10. Busy in laboratory all day.
 March 11. Busy laboratory in morning. Afternoon lunch at D.&F. Co. office appointment with Mr. Clancy and electrical engineer. Western mining people wanted to buy Townsend cells for their chlorination process. Then interview with Mr. Zabriskie of law firm and in conference until 7 P.M. regarding criminal lawsuit entered against D.F. Co. 1X at Niagara Falls (charge one day)
 March 12. Worked all morning in laboratory preparing samples for foreign patents. Thurlow is in Boonton making my molding tests with powdered A and B. Powdered molding making
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 In evening went for dinner to the Branchis and we stayed till one A.M.
 [[margin]] March 13 [[/margin]] Thurlow came back with samples he made in Boonton in accordance with my instructions using powdered A and B.
 It looks as if this will settle the molding question.
 [[written vertically in margin]] Powder molding mixtures [[/margin]]
 I worked somewhat in laboratory but spent most of the time writing letters.
 [[margin]] March 14 [[/margin]] Went to N.Y. D & F. Co. office
 [[margin]] 1/3 X [[/margin]] (charge 1/3 day)
 Took lunch Mouquin with Dr. Foster's table. At 5 P.M. met Baskerville. I told him what Wiley had mentioned to me. B. told me that the day before there had been some
 [[end page]]
 [[start page]]
 [[preprinted]] 35 [[/preprinted]]
 violent stir at the meeting of the Trustees of the Chemist Club
 [[written vertically in margin]] Schweitzer [[/margin]]
 everybody growing indignant when Schweitzer proposed to forbid the use of the Club for a demonstration in honor of Wiley.
 Took supper at Toch's then went with him to Baskerville's house and remained there until 11:30 P.M.
 [[margin]] March 15 (Sunday) [[/margin]] Worked in lab. during forenoon on samples for Meffert. Then wrote letters.
 [[written vertically in margin]] Schweitzer [[/margin]]
 Wrote also letter to [[Lewhoursch?]] making him acquainted with Schweitzer's work against Wiley.
 [[margin]] March 16 [[/margin]] Worked all day in laboratory
 [[margin]] [[image of circle with dot in center]] [[/margin]]
 [[margin]] March 17 [[/margin]] Ditto
 [[margin]] March 18 [[/margin]] Ditto. I have not slept well during these last three days. Almost every day since I invented
 [[end page]]



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[[preprinted]] 36 [[/preprinted]]

[[written vertically in margin]] How to use my invention of Bakelite

[[/margin]]
Bakelite I have been thinking about the best method for developing this into a substantial business that would not involve me too much neither financially nor otherwise. That would give me a chance of investing progressively in accordance with the degree of certainty I am acquiring as to the certainty of the results

[[underlined]] I do not desire to entangle me with other people more than I can help and therefore do not desire specially at the beginning stage to enter into any stock company scheme nor any kind of partnership which would take so very much of the free action and private judgment which will be required while I am perfecting [[/underlined]]

[[end page]]

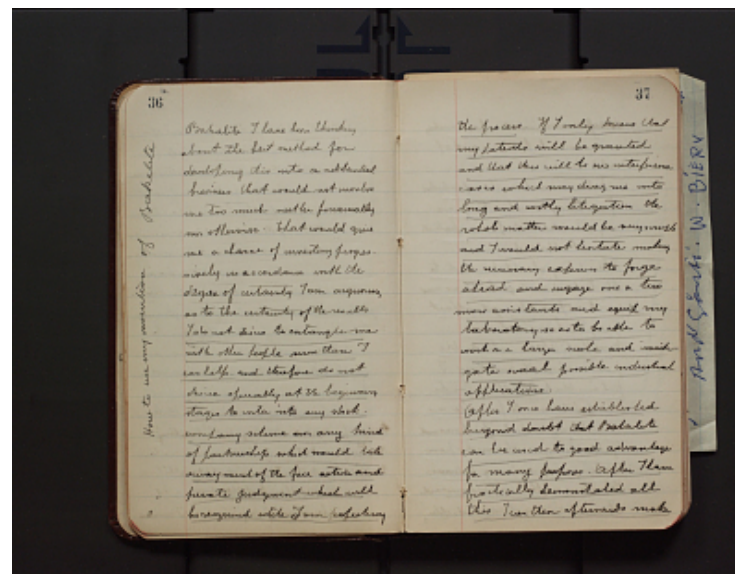
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[[preprinted]] 37 [[/preprinted]]

[[underlined]]the process. If I only knew that my patents will be granted and that there will be no interference cases which may drag me into long and costly litigation the whole matter would be very simple and I would not hesitate making the necessary expenses to forge ahead and engage one or two more assistants and equip my laboratory so as to be able to work on a larger scale and investigate several possible industrial applications.

After I once have established beyond doubt that Bakelite can be used to good advantage for many purposes. After I have practically demonstrated all this I can then afterwards make [[/underlined]]

[[end page]]



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[[preprinted]] 38 [[/preprinted]]

[[margin]] quick molding solved since powder molding matures
[[/margin]]

[[underlined]] any arrangements for making a commercial business out of all this.

In the meantime I am precluded from doing much as long as my American and foreign patents are not allowed. This delay should be used to the best advantage to do as much work as possible, yet without going in heavy expenses.

Now that I have solved the problem of quick molding I feel sure that Bakelite can be used on its merits for quite a number of useful purposes and I feel no longer restrained from making some necessary expenses. Thurlow altho' conscientious and thorough is very slow and often

[[/underlined]]

[[end page]]

[[start page]]

[[preprinted]] 39 [[/preprinted]]

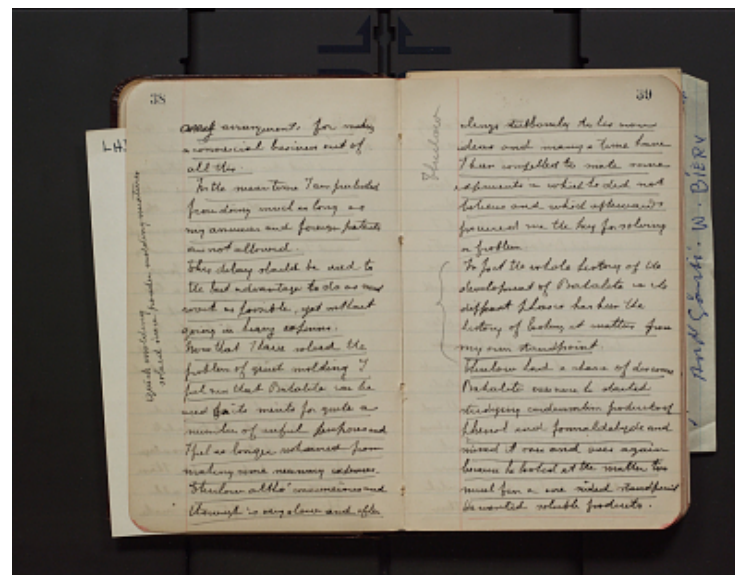
[[margin]] Thurlow [[/margin]]

[[underlined]] clings stubbornly to his own ideas and many a time have I been compelled to make some experiments in which he did not believe and which afterwards procured me the key for solving a problem.

[[/underlined]]

[[bracket]] In fact the whole history of the development of Bakelite in its different phases has been the history of looking at matters from my own standpoint. [[/bracket]]

Thurlow had a chance of discover Bakelite ever since he started studying condensation products of phenol and formaldehyde and missed it over and over again because he looked at the matter too much from a one sided standpoint He wanted soluble products.



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[All text this page bracketed with Reflexions about Bakelite written vertically above the bracket.]

In the same way he thought slightly of my wood hardening process and after I had failed to rouse or keep up his enthusiasm I concluded to investigate further myself with the result that I invented Bakelite (see laboratory note June 18 1907) while he was away in Detroit experimenting with his soluble shellac substitute.

Now Thurlow is a valuable help, honest, truthful ~~intelligent~~ and generally well posted, a man of undoubted individuality, but like all such people rather stubborn sometimes just like myself. The fact that he only comes here from eleven or twelve at noon until five at noon and even then

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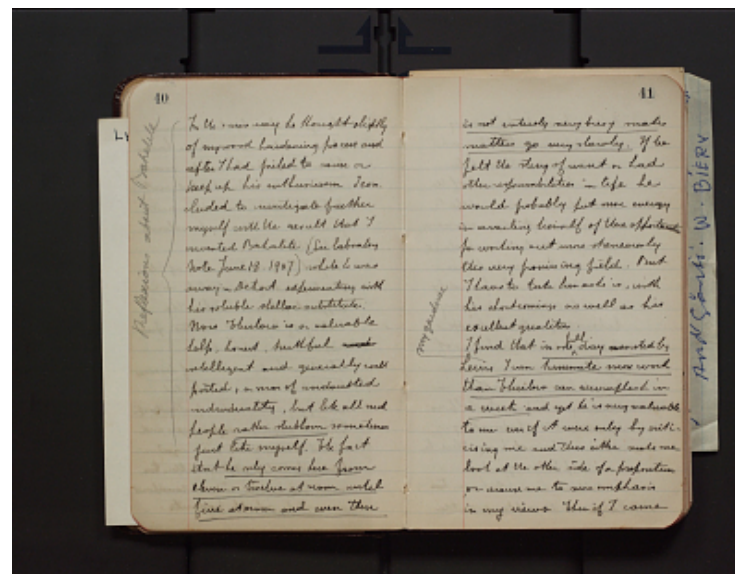
41

is not entirely very busy makes matters go very slowly.

If he felt the sting of want or had other responsibilities in life he would probably put more energy in availing himself of these opportunities for working out more strenuously this very promising field. But I have to take him as he is, with his shortcomings as well as his excellent qualities.

I find that in one full day assisted by my gardener Lewis I can terminate more work than Thurlow can accomplish in a week and yet he is very valuable to me even if it were only by criticising me and thus either make me look at the other side of a proposition or arouse me to more emphasis in my views. Then if I came

[[end page]]



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to die he would be a very valuable aid to those who would develop Bakelite because he knows most of the work I have done altho' he is somewhat dim on many important details and specially on their relative importance

But all this can be found by a careful perusal of my laboratory note books. He also understands the logic of my processes.

I think I am warranted in engaging a laborer to help us steadily in the laboratory. Whenever he's not busy there he can help in the garden. I shall also order to have ~~two~~ windows placed in the

stalls so as to have more light there and two extra windows where the auto stands now and repair the cow barn. This will allow us more space and give us a chance to make a little office and library for the laboratory use.

I ordered carpenter to put in windows in stalls and straighten the barn. I worked all day in lab.

March 19 Worked all day in laboratory making mixtures for testing next week at Boonton by Thurlow. Thurlow lined some piping with Bakelite slate mixture and made an excellent job of it.

March 20 Had to go to New York. worked at D. & F. Co office on case against the company for which

March 21 I shall also order to have two windows placed in the stalls so as to have more light there and two extra windows where the auto stands now and repair the cow barn. This will allow us more space and give us a chance to make a little office and library for the laboratory use.

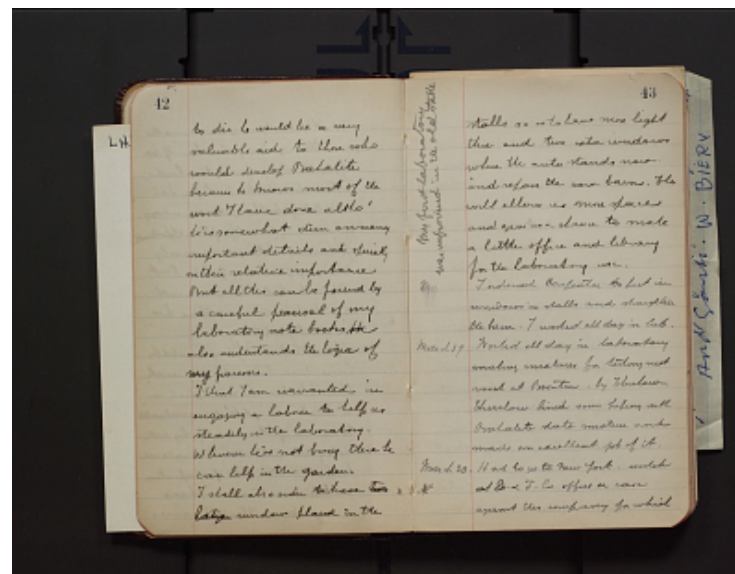
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[[preprinted]] 44 [[/preprinted]]

I shall have to give expert testimony. Spent most of the day preparing notes. had interview with Mr. Gray (of Zabriskie Murray Sage & Kerr) then at 5 P.M. interview with Baskerville whom I have retained as expert witness.

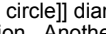
[[margin]] 1X [[/margin]] (Charge one day). went to dinner at Savoy Hotel prior to meeting of Soc of Chemical Industry Schweitzer all evening talked his own head off, attacking and vilifying Wiley. I am disgusted. In the evening came home with Petsche and Berolzheimer. I had shown more samples of Bakelite to Bogert. ~~Berolzheimer~~ Berolzheimer at the Club ~~Berolzheimer~~ then ~~Berolzheimer~~ to Dr. Pond during dinner then to Petsche and Berolzheimer coming home

[[end page]]

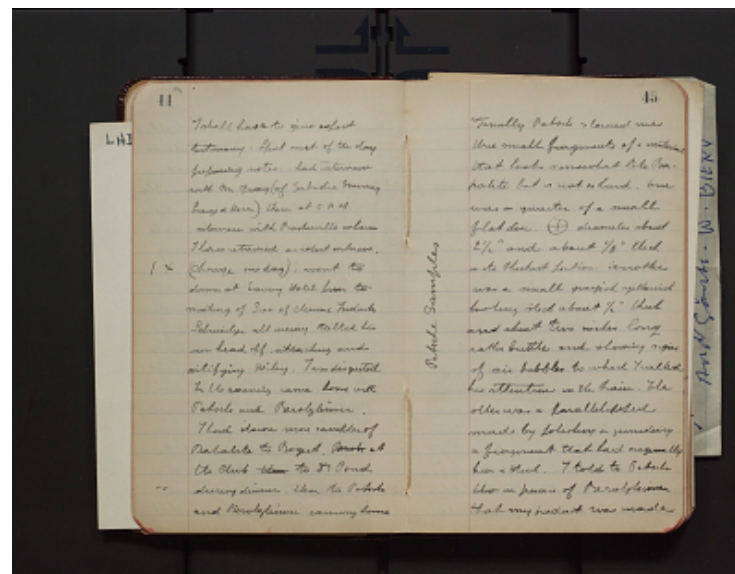
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[[preprinted]] 45 [[/preprinted]]

[[margin]] Petsche Samples [[/margin]]

Finally Petsche showed me three small fragments of a material that looks somewhat like Bakelite but is not so hard. One was a quarter of a small flat disc.  diameter about 2 1/2" and about 1/8" thick in its thickest portion. Another was a small grayish yellowish looking disk about 1/2" thick and about two inches long rather brittle and showing signs of air bubbles to which I called his attention in the train. The other was a parallelepiped made by polishing or grinding a fragment that had originally been a ~~stick~~. I told to Petsche ~~th~~ ~~in~~ presence of Berolzheimer that my product was made

[[end page]]



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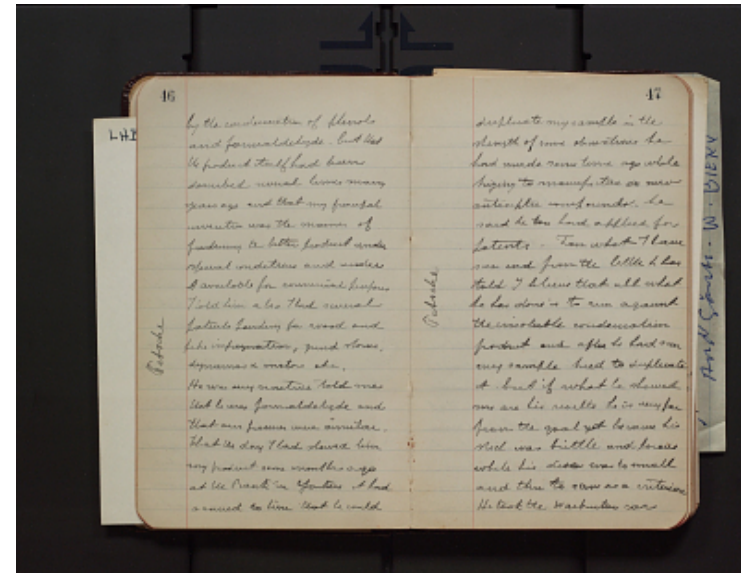
by the condensation of phenols and formaldehyde, but that the product itself had been described several times many years ago and that my principal invention was the manner of producing a better product under special conditions and made it available for commercial purposes. I told him also I had several patents pending for wood and fibre impregnation, grind stones, dynamos & motors etc.

He was very secretive told me that he uses formaldehyde and that our processes were similar. That the day I had showed him my product some months ago at the Bank in Yonkers it had occurred to him that he could

duplicate my sample on the strength of some observations he had made

some time ago while trying to manufacture

new antiseptic compounds. He said he too had applied for patents. From what I have seen and from the little he has told I believe that all what he has done is to run against the insoluble condensation product and after he had seen my sample tried to duplicate it. But if what he showed me are his results he is very far from the goal yet because his stick was brittle and porous while his disc was to small and thin to serve as a criterion. He took the Warburton car



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[[note written vertically in left margin]] [[Patsche?]]

while Berolzheimer and myself took the Park Avenue car and then Berolzheimer told me that from what he (B) knew as far as he worked in the same laboratory and had seen Patsche at work he did not use phenol in ~~my~~ the way I do and that what he had accomplished thus far was very rudimentary and amounts to very little from a functional standpoint. Told me that Patsche has too little knowledge of organic chemistry to know really where he is at and that this evening he had learned more by my own conversation than he ever knew before. Berolzheimer did not dare to make any more definitive statements on

[[start page]]

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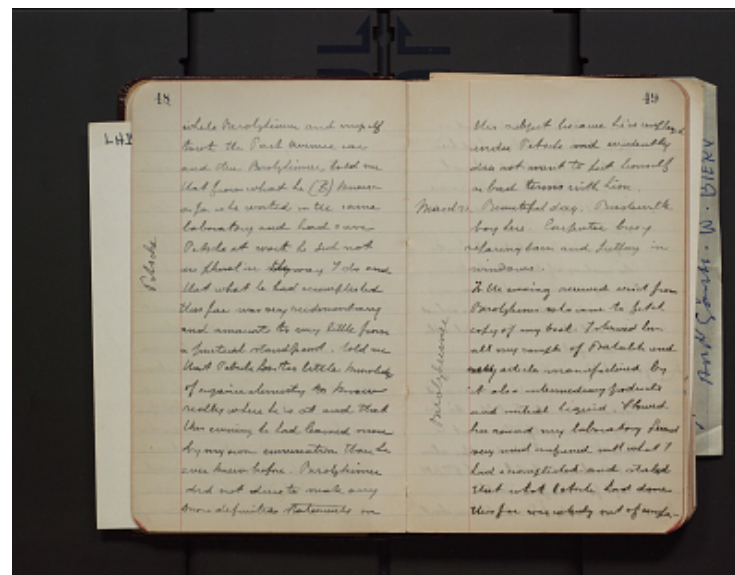
this subject because he is employed under Patsche and evidently does not want to let himself be on bad terms with him.

March 21 Beautiful day. Baskerville boy here. Carpenter busy reframing barn and putting in windows.

[[written vertically in left margin]] Berolzheimer

In the evening received visit from Berolzheimer who came to fetch copy of my book. I showed him all my samples of Bakelite and many articles manufactured by it also intermediary products and initial liquid. Showed him around my laboratory. Seemed very much impressed with what I had accomplished and stated that what Patsche had done thus far was entirely out of compa-

[[end page]]



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rison. He also stated that as far as he knew Patsche had been working with diluted phenol i.e. phenol to which water was added : My method is exactly the opposite.

Afterwards I went to Dr. Jenks to meeting of Anvil Club. There Bryate read a paper on Municipal administration which drew out a discussion until after midnight.

[[margin]] Sunday 22 March [[/margin]]

I felt very tired this morning. At noon Baskerville came and remained until 5 P.M. He his

[[margin]] # [[/margin]]

boy and myself then went to New York and I took supper alone at Belmont Hotel. At 8:00 P.M. left for Niagara Falls.

[[margin]] March 23. [[/margin]]

Arrived at "Prospect House" about

[[end page]]

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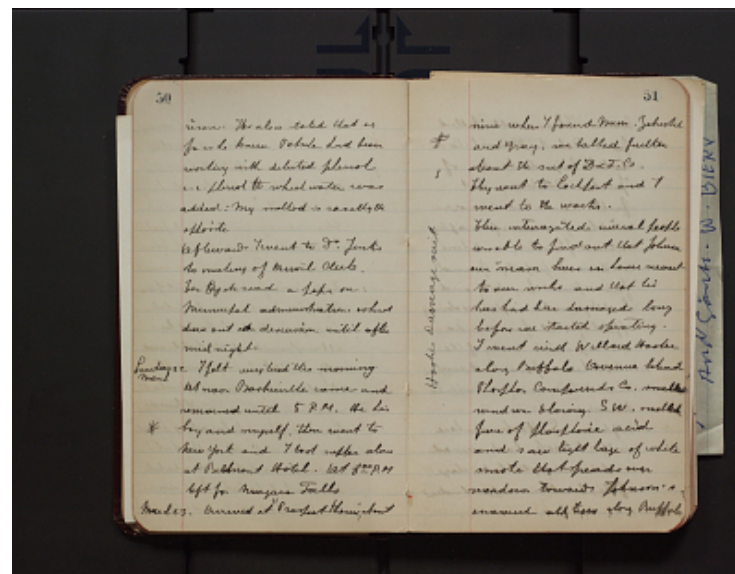
51
[[preprinted]] 51 [[/preprinted]]

[[margin]] # 1 [[/margin]]

nine when I found Messrs. Zabreskie and Gray. we talked further about the suit of D & F. Co. They went to Lockport and I went to the works.

[[margin]] Hooker Damage Suit [[/margin]]

There interrogated several people was able to find out that Johnson our mam lives in house nearest to our works and that his trees had been damaged long before we started operating. I went with Willard Hooker along Buffalo Avenue behind Phosphor Compounds Co. ~~smelled~~ wind was blowing S W. smelled fumes of phosphoric acid and I saw light haze of white smoke that spreads over meadow towards Johnson's around all trees along Buffalo



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[preprinted] 52 [preprinted]
Avenue. They are all killed from Roberts Chemical Co on until beyond
bridge of Junction Railway but further down no damage visible fine row
of maples in most flourishing condition. On Howard property found fine
spruce big strong and healthy not a single one showing effect of acid
fumes. No damage visible on any of the other trees as far as last
complainant [Bowen] on Buffalo Avenue.
Afternoon E. Hooker was here. Albert Hooker had arrived in the
morning to take charge of the plant as superintendent

[end page]

[start page]

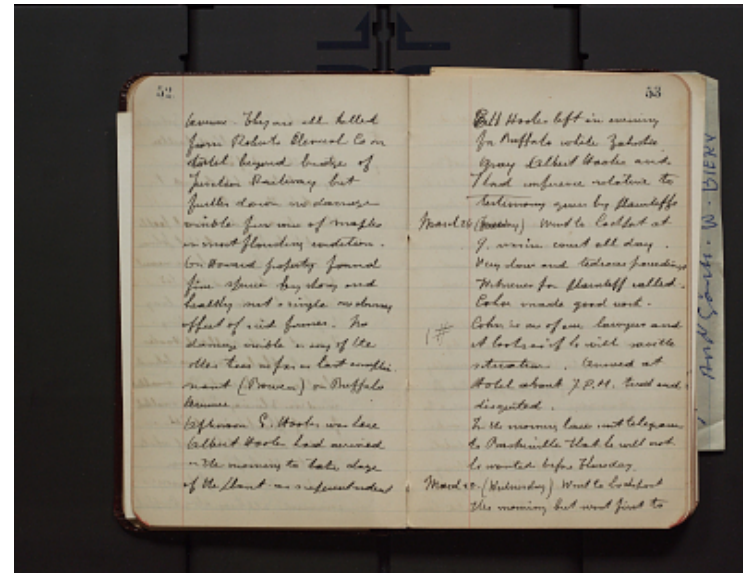
[preprinted] 53 [preprinted]

E. H. Hooker left in evening for Buffalo while Zabriskie, Gray, Albert
Hooker and I had conference relative to testimony given by plaintiffs.
March 24 (Tuesday) Went to Lockport at 9. was in
court all day. Very slow and tedious proceedings. Witnesses for plaintiff
called. Cohn made good work. Cohn is one of our lawyers and it looks
as if he will save the situation. Arrived at Hotel about 7 P.M. tired and
disgusted.

[margin] 1# [margin]

In the morning have sent telegram to Baskerville that he will not be
wanted before Thursday.

[margin] March 25. [margin] (Wednesday) Went to Lockport this
morning but went first to



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United Indurated Fibre Co where I met Mr. Jesse Peterson and his Superintendent (not Mr Folger but a gentleman about 50 - 60 years old rather slim with large grayish moustache)

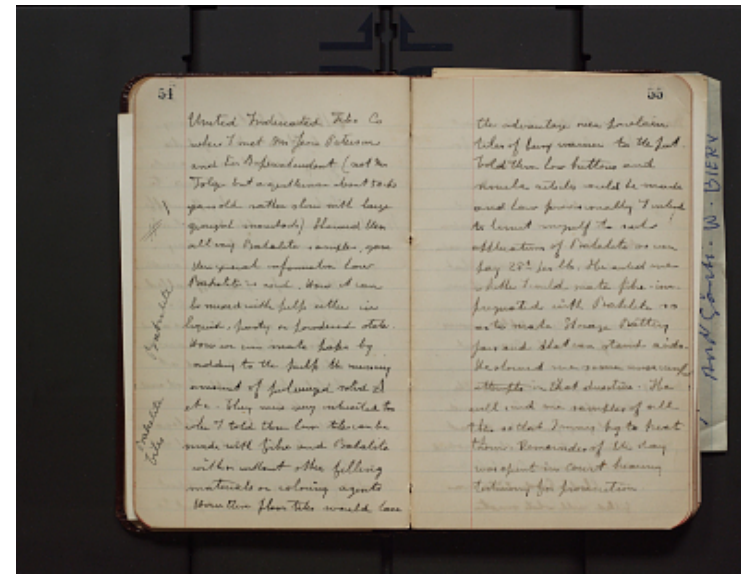
#1
Showed them all my Bakelite samples, gave them general information how Bakelite is used.

Bakelite
How it can be mixed with pulp either in liquid, pasty or powdered state. How we can make paper by adding to the pulp the necessary amount of pulverized solid A etc.

Bakelite files
They were very interested too when I told them how tiles can be made with fibre and Bakelite with or without other filling materials or coloring agents. How these floor tiles would have

the advantage over porcelain tiles of being warmer to the feet. Told them how buttons and similar articles could be made and how provisionally I intend to limit myself to such applications of Bakelite as can pay 25 per lb. He asked me whether I could make fibre-impregnated with Bakelite so as to make Storage Battery Jars and that can stand acids. He showed me some unsuccessful attempts in that direction. He will send me samples of all this so that I may try to treat them. Remainder of the day was spent in Court hearing testimony for prosecution.

55
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[[preprinted]] 56 [[/preprinted]]

[[margin]] March 26. [[/margin]] Another day spent in court house hearing witnesses for prosecution. The expert witness Dr. Campbell a physician

[[margin]] 1# [[/margin]]

found that he was unqualified as a chemist altho' he maintains to be a chemist. A cross examination made him give testimony that turned the witness in favor of our case.

Zabriskie & Gray left on evening train for New York. Recess until Monday

[[margin]] March 27. [[/margin]] This morning when going to the works of the D. & F. Co. the wind was blowing from the North East blowing quite violently.

[[margin]] 1# [[/margin]]

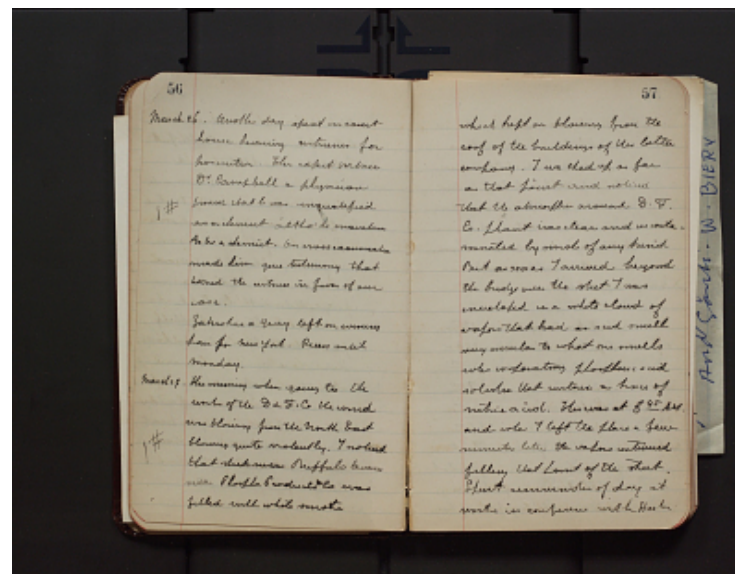
I noticed that ~~the~~ street was ~~filled with~~ Buffalo Avenue near Phosphor Products Co. was filled with white smoke

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[[preprinted]] 57 [[/preprinted]]

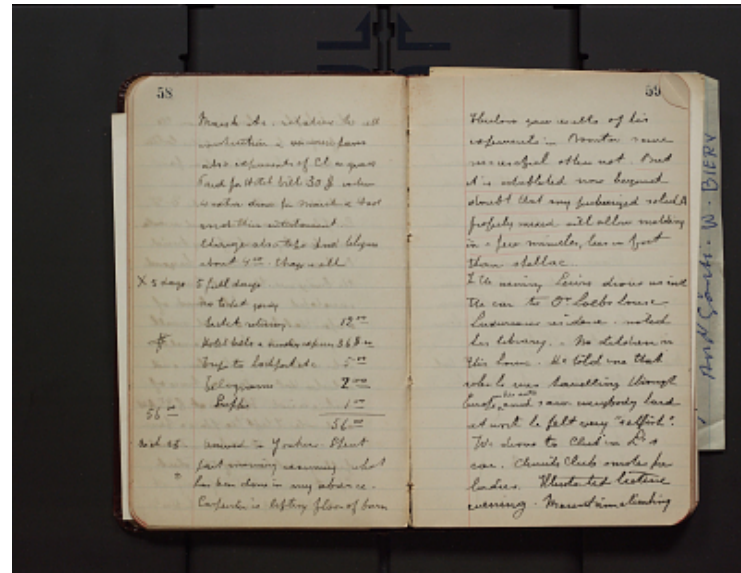
which kept on blowing from the roof of the buildings of the latter company. I walked up as far as that point and noticed that the atmosphere around D. F. Co. plant was clear and uncontaminated by smoke of any kind. But as soon as I arrived beyond the bridge over the street I was enveloped in a white cloud of vapors that had an acid smell very similar to what one smells when evaporating phosphoric acid solution that contains a trace of nitric acid. This was at 8:45 A.M. and when I left the place a few minutes later the vapors continued filling that point of the street. Spent remainder of day at works in conference with Hooker



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[[Preprinted]] 58 [[/preprinted]]
 Marsh etc relative to cell construction & vacuum [[fans]] also
 experiments of Cl on grass
 Paid for Hotel Bill 30\$ unclear 4 extra diners for Marsh & [[Hood?]] and
 their entertainment.
 Charge also tips and telegrams about 4.00. Charge in all
 [[note in margin]] x 5 days [[/note in margin]]
 5 full days
 no ticket going
 ticket returning 12.00
 [[note in margin]] # [[/note in margin]]
 Hotel bills & sundry expenses 36\$.00
 Trips to Lockport etc 5.00
 Telegrams 2.00
 Supper 1.00
 56.00
 [[note in margin]] 56.00 [[/note in margin]]

[[Margin]] Mch 28. [[/margin]]
 Arrived in Yonkers. Spent part morning learning what has been done in
 my absence. Carpenter is lifting floor of barn
 [[end page]]
 [[start page]]
 59
 Thurlow gave results of his experiments in Boonton some successful
 others not. But it is established
now beyond doubt that my pulverized solid A properly mixed will allow
molding in a few minutes, less in fact than shellac. [[end underlining]]
 In the evening Lewis drove us with the car to Dr. Loeb's house.
 Luxurious residence. noted his library. No kitchen in this house. He
 told me that when he was travelling through Europe in his auto and
 saw everybody hard at work he felt very "selfish." We drove to Club in
 L's car. Chemists Club smoker for ladies. Illustrated lecture evening.
 Mountain climbing
 [[end page]]



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in Canadian Rockies. Many ladies present. Very successful entertainment. Celine looked prettier and more tastefully dressed, altho' simply dressed, than anybody else.

Drove Mr. Evans and his daughter to their residence in Kingsbridge, Berolsheimer to Yonkers and arrived home about 12:45 A.M.

March 29 Did~~not~~ not do much ~~little~~ and took 8:00 P.M. train for Buffalo.

[[Following itemized costs bracketed together]]

Supper 1.75

Tickets 12.00

Breakfast 1.00

Ticket Lockport 35

Dinner 75

Ticket [[Maga?]] 30

[[end page]]

[[start page]]

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March 30 Spent all day in court listening to further testimony for prosecution also their expert witness Dr. Miller [[#1 in margin]] of Buffalo. He was generally a fair witness but got mixed up in his calculations and does not seem to be acquainted with this industry altho' he claims otherwise.

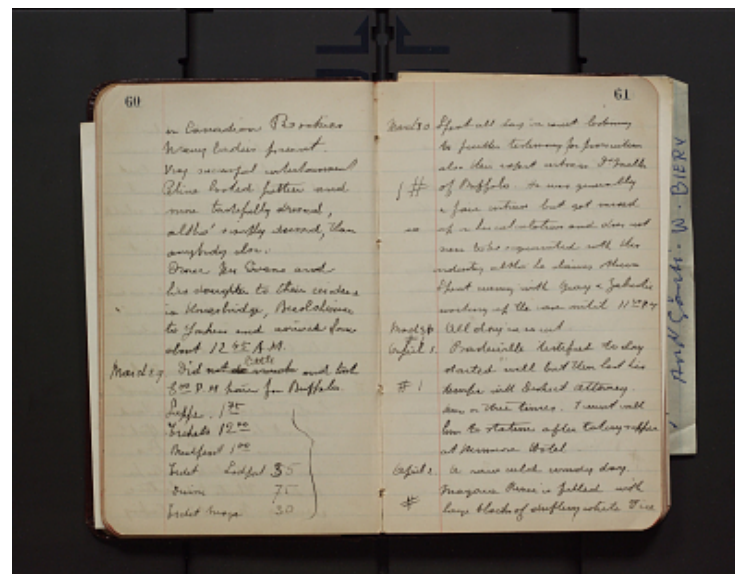
Spent evening with Gray & Zabreskie working up the case until 11:30 P.M.

March 31 All day in court. [[#1 in margin]]

April 1 Baskerville testified today started well but then lost his temper with District Attorney two or two or three times. [[#1 in margin]] I went with him to station after taking supper at Kenmore Hotel.

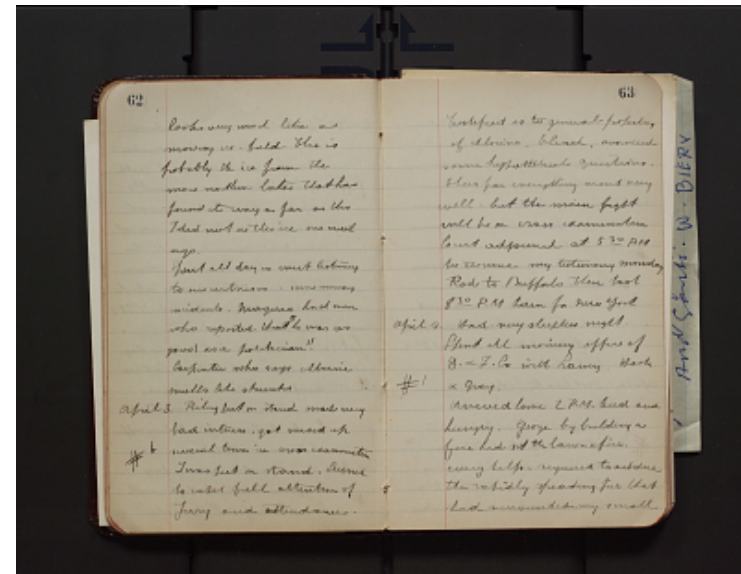
April 2 A raw cold windy day. Niagara River is filled with large blocks of drifting white ice. [[# in margin]]

[[end page]]



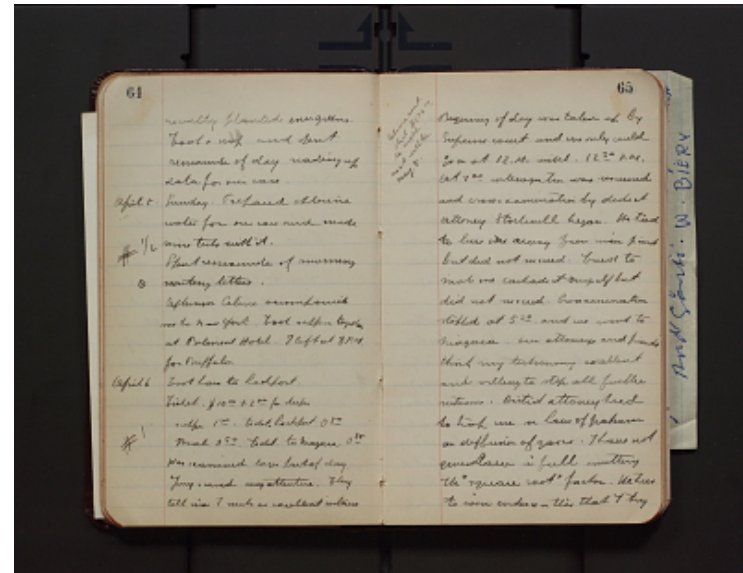
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[[preprinted]] 62 [[/preprinted]]
 looks very much like a moving ice field. This is probably the ice from the more northern lakes that has found its way as far as this I did not see this ice one week ago.
 Spent all day in court listening to our witnesses. some amusing incidents. Niagara had men who reported that "he was as good as a politician."
 Carpenter who says chlorine smells like skunks.
 [[margin]] April 3 [[/margin]] Riley put on stand made very bad witness. got mixed up [[margin]] #1 [[/margin]] several times in cross examination. I was put on stand. Seemed to catch full attention of Jury and attendance.
 [[end page]]
 [[start page]]
 [[preprinted]] 63 [[/preprinted]]
 Testified as to general properties of chlorine bleach, answered some hypothetical questions. Thus far everything went very well, but the main fight will be on cross examination. Court adjourned at 5:30 P.M. to resume my testimony Monday. Rode to Buffalo then took 8:30 P.M. train for New York.
 [[margin]] April 4 [[/margin]]
 Had very sleepless night. Spent all morning office of D. & F. Co. with Lansing, Hook and Gray.
 [[margin]] #1 [[/margin]]
 Arrived home 2 P.M. tired and hungry. George by building a fire had set the lawn afire. Every help. required to subdue the rapidly spreading fire that had surrounded my small



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[[start page]]
 [[preprinted]]64[[/preprinted]]
 recently planted evergreens.
 Took a nap and spent remainder of day reading up data for our case.
 [[margin]]April 5 [[/margin]]Sunday. Prepared chlorine water for our case and made some tests with it.
 [[margin]]#1/2[[/in margin]]
 Spent remainder of morning writing letters.
 [[circle with dot in center / in margin]]
 Afternoon Celine accompanied me to New York. Took supper together at Belmont Hotel. I left at 8 P.M. for Buffalo.
 [[margin]]April 6[[/margin]] Took train to Lockport.
 Ticket \$10.00 + 2.00 for sleeper
 supper 1.00 ticket, Lockport 0.50
 [[margin]]#1[[/margin]]
 meal 0.50 ticket to Niagara 0.35
 Was examined larger part of day. Jury seemed very attentive. They tell me I make an excellent witness
 [[end page]]
 [[start page]]
 [[preprinted]]65[[/preprinted]]
 [[margin]] Celine sent check \$100.00 to mother. Next will be May 5. [[/margin]]
 Beginning of day was taken up by Supreme Court and we only could go on at 12 M. until 12:30 P.M. At 1:00 interogation was resumed and cross-examination by district attorney Stockwell Hegan. He tried to lure me away from main point but did not succeed. Tried to make me contradict myself but did not succeed. Cross examination stopped at 5:30 and we went to Niagara. Our attorneys and friends think my testimony excellent and willing to stop all further witnesses. District Attorney tried to trap me on Law of Graham on diffusion of gases. I have not given Law in full omitting the "square root" factor. He tries to coin evidence on this that I try
 [[end page]]



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to withhold portions of the truth in our favor. He evidently does not know that what he alleges will count against him. Probably he confuses "square root" with "squares" Tomorrow when Mr. Zabreskie interrogates me we shall be able to tell exactly on this subject.

What a contemptible tendency these district attorneys have. They do not want the truth. They only want to mix up witnesses, never mind how, as long as it advances their own vanity. I begin to realize what a misnomer justice is. The older I get the less respect I have for so called "law." Henceforth when I meet a convicted

[[end page]]

[[start page]]

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criminal I shall have some respect for him. He will mean to me a man who has been entrapped by the everlasting tricks of some district attorney.

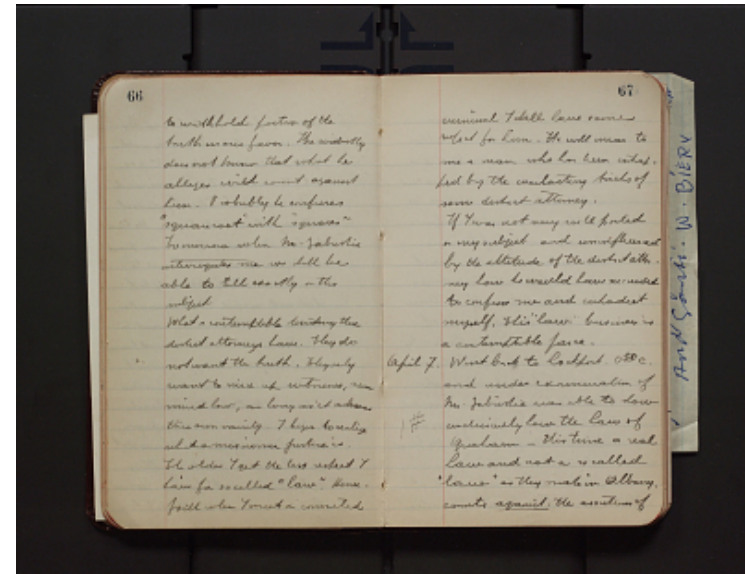
If I was not very well posted on my subject and uninfluenced by the attitude of the district attorney how he would have succeeded to confuse me and contradict myself. This "law" business is a contemptible farce.

[[April 7 [in margin]] Went back to Lockport 0.50c. and under examination of Mr. Zabreskie was able to show

[[#1 [in margin]]

conclusively how the Law of Graham - this time a real Law and not a so called "law" as they make in Albany. counts against the assertions of

[[end page]]



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[[preprinted]]68[[/preprinted]]
the district attorney because the "square root" is smaller than the number of which it is the square root. Showing also that I did not want to enounce the full law so as not to confuse a jury made up of farmers. The way I enounced the law it would take 2 1/2 times longer for chlorine to diffuse than air; the accurate way of enouncing it would take only 1 1/2 minutes longer. After the facts were brought out and the district attorney was routed all members of the jury as well as the judge had the laugh at the district attorney.

Cross examination finished at noon before lunch. Zabriskie

[[end page]]

[[start page]]

[[preprinted]]69[[/preprinted]]

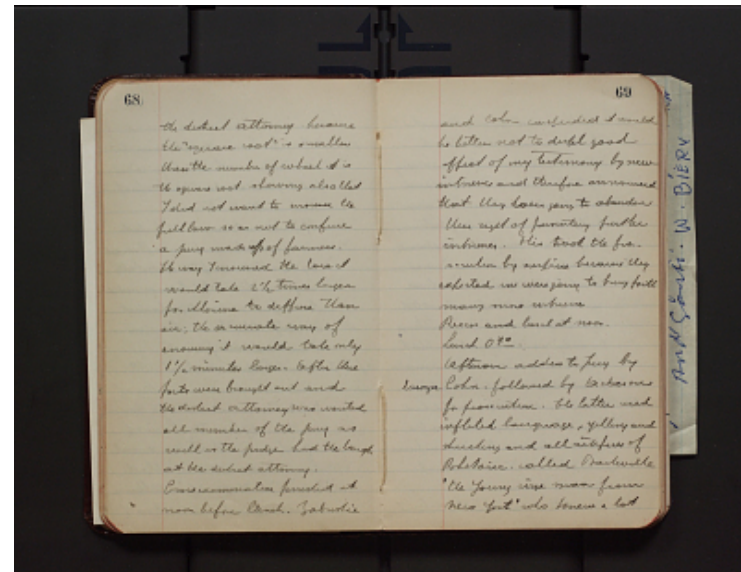
and Cohn concluded it would be better not to dispel good effect of my testimony by new witnesses and therefore announced that they were going to abandon the right of presenting further witnesses. This took the prosecution by surprise because they expected we were going to bring forth many more witnesses.

Recess and lunch at noon.

Lunch 0.70.

Afternoon address to jury by lawyer Cohn. followed by Dickerson for prosecution. The latter used inflated language, yelling and shouting and all artifices of Rhetoric. Called Baskerville "the Young wise man from New York" who knew a lot

[[end page]]



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and seemed to be aware of it." In the same way he did up all our witnesses. referring sneeringly to them and I was prepared to be treated in the same way but when he came to my testimony he made several very complimentary remarks called me "an honest, straightforward witness and a scientist of undoubted reputation" and similar things he only said against me that even I may be mistaken in some particulars which I called impossible, that things which had been called impossible in the past had more than once proved possible with the advance of knowledge.

Went to Niagara Falls where I

[[end page]]

[[start page]]

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took supper with Mr. Zabriskie then train to Buffalo then sleeper to New York (8:30 P.M.)

ticket 10.00 sleeper 2.00

April 8. I am glad this confounded thing is all over. What a loss of time and money for everybody connected with the long trial.

[[# in margin with "1/2" below]]

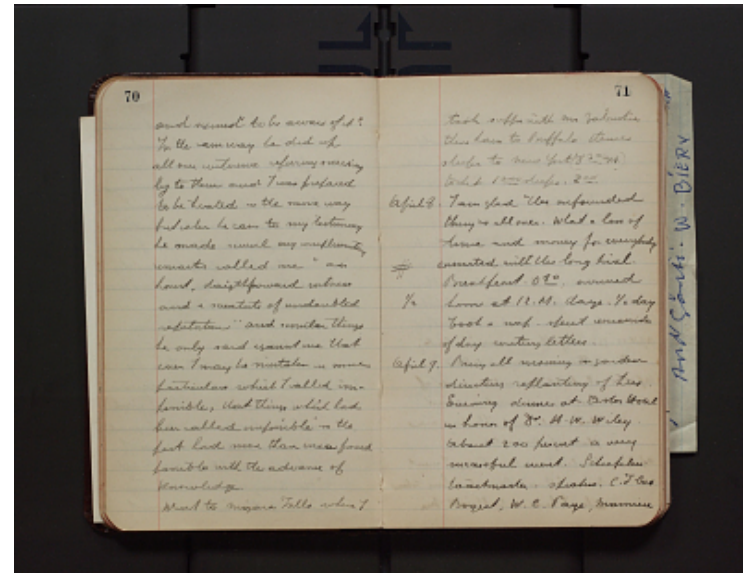
Breakfast 0.80. arrived home at 12. M. Charge. 1/2 day

Took a nap. spent remainder of day writing letters.

April 9. Busy all morning in garden directing replanting of trees.

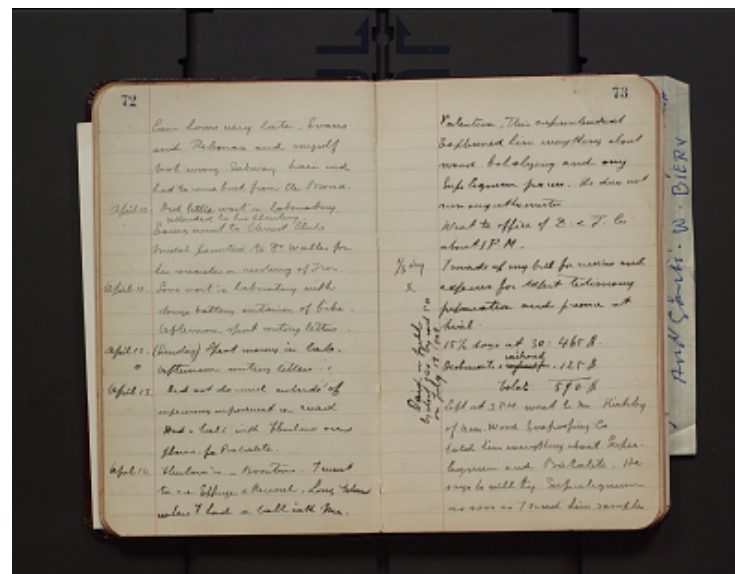
Evening dinner at Astor Hotel in honor of Dr. H.W. Wiley. About 200 present a very successful event. Schefelen. toastmaster. speaker. C.J. Cox, Bogert, W.C. Page, Marmiere

[[end page]]



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[[start page]]
 [[preprinted]]72[[/preprinted]]
 Came home very late. Evans and [[Rebman?]] and myself took wrong Subway home and had to come back from the Bronx.
 April 10. Did little work in laboratory. Attended to the planting. Evening went to Chemist Club Medal presented to Dr. Walker for his researches on rusting of Iron.
 April 11. Some work in laboratory with storage battery container of fiber. Afternoon spent writing letters.
 April 12. (Sunday) Spent morning in lab. Afternoon writing letters. [[circle with dot in center in margin]]
 April 13. Did not do much outside of supervising improvement on road. Had a talk with Thurlow on plans for Bakalite.
 April 14. Thurlow is in Boonton. I went to see [[Effeyer & Brunel?]]. Long Island where I had a talk with Mr.
 [[end page]]
 [[start page]]
 [[preprinted]]73[[/preprinted]]
 Valentine, their superintendent. Explained him everything about wood bakalizing and my Superlignum process. He does not seem very enthusiastic.
 Went to office of D. & F. Co. about 1 P.M.
 [[^margin notation]] 1/3 day
 X [[^margin notation]]
 I made up my bill for services and expenses for expert testimony preparation and presence at trial.
 15 1/2 days at 30 = 465\$.
 Disbursements & railroad 125\$
 Total 590\$
 [[^Note written vertically on left margin]] Paid in full by check 540 by cash 50 on July 18. 1908
 [[^Margin Note]]
 Left at 3 P.M. went to Mr. Kirkby of Am. Wood fireproofing Co told him everything about Superlignum and Bakalite. He says he will try Superlignum as soon as I send him samples.
 [[end page]]



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April 15 Chilly cold foggy day. Spent morning writing letters.

April 16 ~~April 16~~ ~~April 16~~

April 16 Went to New York and delivered 100 shares N.Y. Air Brake and warrant to Selysberg & Co. - No receipt. In the evening went to Toch's for supper. He leaves next Saturday for Europe.

[[Written vertically in margin]] Reflexions

April 17 Busy somewhat in laboratory with fibre cell process. a rather unsatisfactory day. I feel tired & depressed. what's the use of all the complications of this life. why not live in a small house with one or no servants. What a lot of absurd complications do we carry in our lives.

April 18 Thurlow came back from Boonton and reports progress with the molding. It looks as if Seabury

[[end page]]

[[start page]]

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was going to avail himself of his option for exclusive license for insulating materials. I worked somewhat in laboratory on battery jars. Planted 60 small evergreens and 25 peach trees. I shall be an old man before they are big but I hope somebody else will have the joy of them. Evening went to Mr. Baunrigin house. meeting of Anvil.

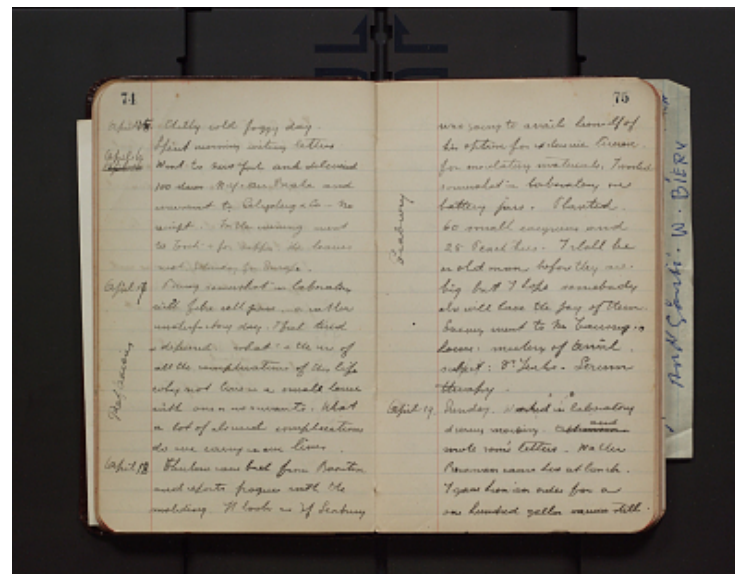
subject: Dr. Jenks -- Serum therapy

April 19 Sunday Worked in laboratory during morning.

~~Afternoon~~ and wrote some letters.

Walter Bowman came here at lunch. I gave him an order for a one hundred gallon vacuum still.

[[end page]]



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April 20. Worked for awhile in laboratory. ~~In the a~~
~~At noon Thurlow came around to prepare his samples~~
for Boonton.

In afternoon we ~~took~~ felled that
Japanese hemlock in middle of front lawn. It showed 20 yer rings. Tree
had been damaged by the two big maple trees that were uprooted last
fall by storm. During the afternoon Lansing came here to consult me
about several letters and matters

$\frac{1}{2}$ X in margin] pertaining to patent department. Charge half day with
time I spent yesterday on various letters

April 21 Thurlow left for Boonton to supervise some further tests. I sent
to Peterson of United Indurated Fibre Co. a fibre

[end page]

[start page]

battery jar impregnated with Bakelite.

April 22. Went to N.Y. and came home in same train with Nina & [11
and circle with a dot in center in margin]Celine. Explained Bakelite to
Mr. [Murton?]

April 23 Wrote letters largest part of day.

[circle with dot in margin]

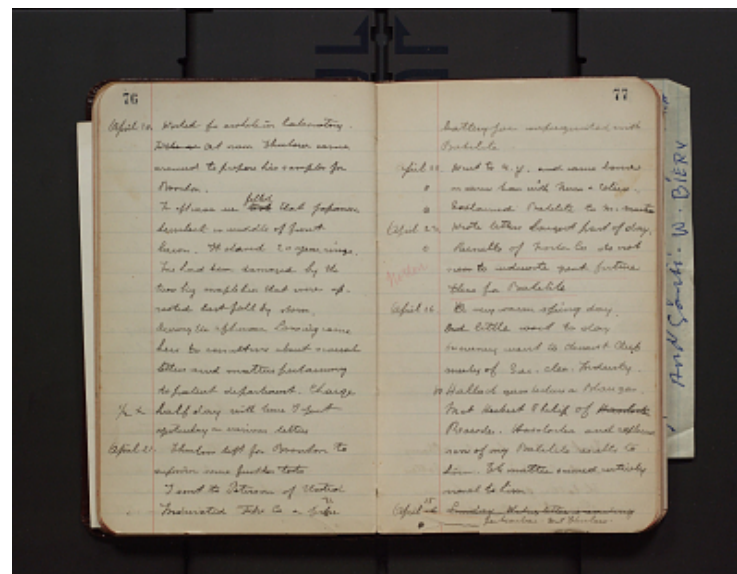
[Norton written in red pencil in margin]

[underline in red pencil] Results of Norton Co. do not seem to indicate
great future there for Bakelite. [underline]

April 24. A very warm spring day. Did little work today. In evening went
to Chemist Club meeting of Soc. Chem. Industry. W. Hallock gave
lecture on Blau gas. Met Herbert Philip of ~~Hasslacher~~
~~Roessler~~. Hasslacher and explained some of my
Bakelite results to him. The matter seemed entirely novel to him.

April 25 ~~Sunday~~ Writing letters and reading [tear in
page] particular. Met Thurlow.

[end page]



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[[Preprinted]] 78 [[/preprinted]]
[[~~April 26~~ Monday went to New ~~York~~]]
who has returned from Boonton and reports progress in molding.
[[Things seem to go too slowly for me.]]

Sunday 26 Reading and writing all day.

[[circle with dot in center in margin]]

Monday 27 Nothing particular.

Tuesday 28 Coal is being delivered. I went to New York. D & T. Co where I had conference with Lansing on several patent matters (charge 1/2 day). [[margin note - X 1/2]] Then went hunting for an experimental hydraulic press

April 29. 25 evergreens have arrived (pine trees)

Spent all morning planting them

April 30. Left for Albany meeting of Am Electrochemical Society.

Took 12:40 M. train to Albany with Baskerville and Neil Potter

The latter came back from Rawhide Nevada where

[[end page]]

[[start page]]

[[preprinted]] 79 [[/preprinted]]

he had been engaged in gold mining since the financial difficulties of Geo. Westinghouse for whom he formerly was the private research chemist.

Went to the Ten Eyck hotel where most members were in session.

showed samples of Bakelite to Potter

and explained preparation

In the evening met Bancroft, Hering White, Carveth

and many others also Parsons and showed them my

samples of Bakelite and explained manufacture of

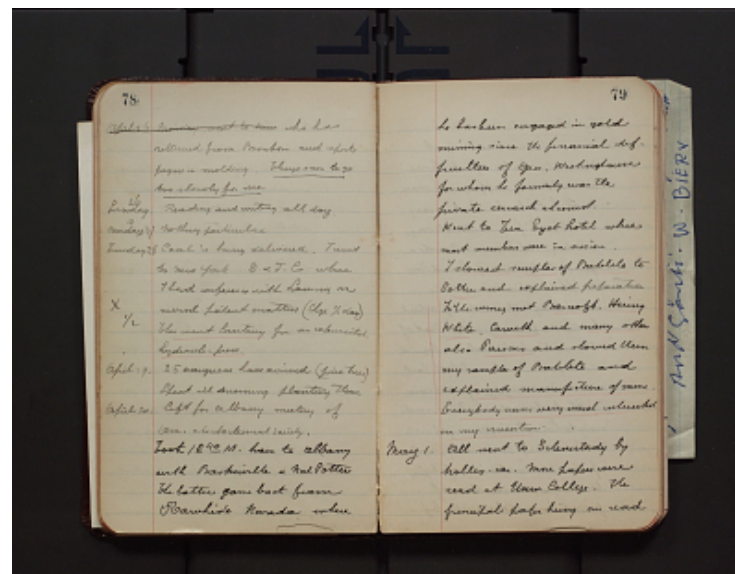
same. Everybody seems very much interested in my invention.

[[/underlined]]

May 1 All went to Schenectady by trolley-car. More papers were read at

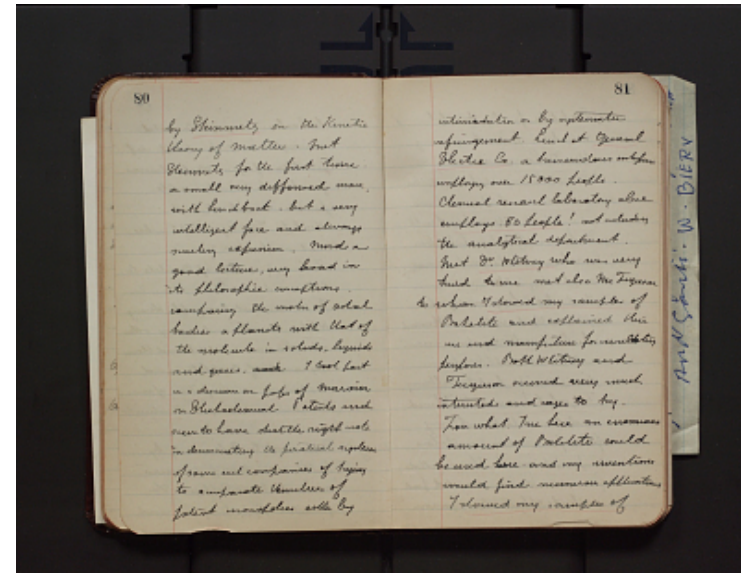
Union College. The principal paper being one read

[[end page]]



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by Steinmetz on the Kinetic theory of matter. Met Steinmetz for the first time. a small very deformed man with hunchback. but a very intelligent face and always smiling expression. Made a good lecture, very broad in its philosophic conceptions comparing the motion of astral bodies or planets with that of the molecule in solids, liquids and gases. ~~I~~ and ~~I~~ I took part in a discussion on paper of Marvin on Electrochemical Patents and seem to have struck the right note in denouncing the piratical system of some such companies of trying to encorporate themselves of patent monopolies either by
 [end page]
 [start page]
 intimidation or by systematic infringement. Lunch at General Electric Co. a tremendous enterprise employing over 15000 people. Chemical research laboratory alone employs 80 people! not including the analytical department. Met Dr. Whitney who was very kind to me met also Mr. Ferguson to whom I showed my samples of Bakelite and explained their use and manufacture for insulating purposes. Both Whitney and Ferguson seemed very much interested and eager to try. From what I see here an enormous amount of Bakelite could be used here and my invention would find numerous applications. I showed my samples of
 [end page]

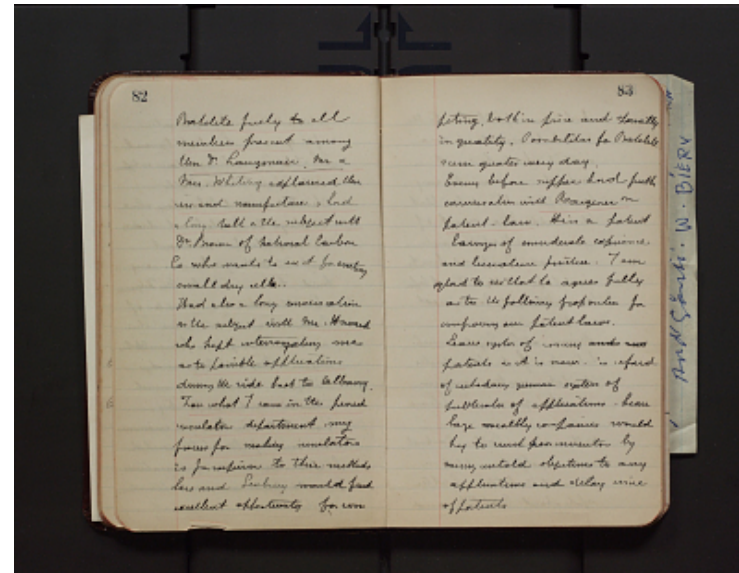


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Bakelite freely to all members present among them Dr. Langmuir, Mr. & Mrs. Whiting explained their use and manufacture, had a long talk on the subject with Dr. Brown of National Carbon Co. who wants to use it for coating small dry cells. Had also a long conversation on the subject with Mr. Howard who kept interrogating me as to possible applications during the ride back to Albany. From what I saw in the insulator department my process for making insulators is far superior to their methods here and Seabury would find excellent opportunity for com

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peting, both in price and specially in quality. Possibilities for Bakelite seem greater every day. Evening before supper had further conversation with Rocegener on patent-law. He is a patent lawyer of considerable experience and lucrative practice. I am glad to see that he agrees fully as to the following proposition for improving our patent laws. Leave system of issuing ~~and~~ patents as it is now. is afraid of introducing german system of applications - hence large wealthy companies would try to crush poor inventor by raising untold objections to any applications and delay issue of patents.



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but agrees fully as to the absolute necessity of one central patent court in Washington. Strange to say he emphatically states that this should be a court of jurists, not of technologists or scientists. I induced him to send paper on the subject before American Chemical Society next winter.

Dinner at Ten Eyck. Much hilarity, but poor speeches. the whole matter was run in a rather go-as-you-please manner.

After dinner Potter Baskerville and myself, assembled in the room of the latter. Potter spoke about Bakelite and

[[end page]]

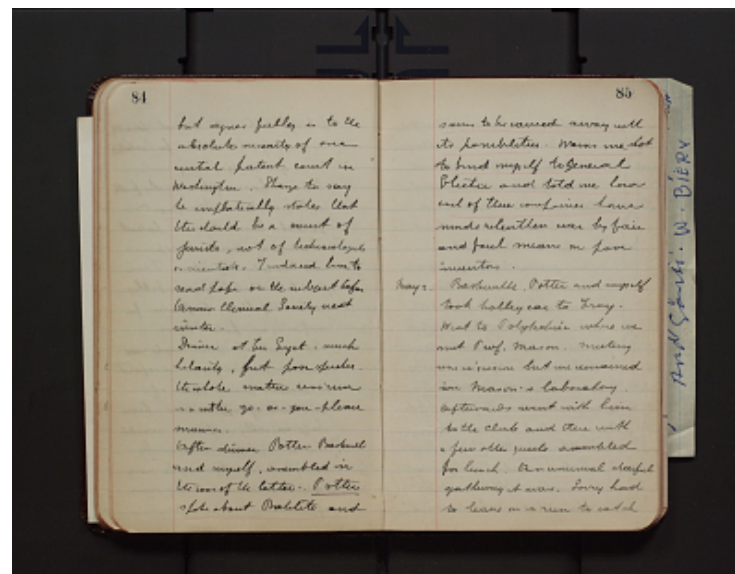
start page]]

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seems to be carried away with its possibilities. Warns me not to bind myself to General Electric and told me how each of these companies have made relentless war by fair and foul means on poor inventors.

May 2 Baskerville, Potter and myself took trolley car to Troy. Went to Polytechnic where we met Prof. Mason. Meeting was in session but we remained in Mason's laboratory. Afterwards went with him to the Club and there with a few other guests assembled for lunch. An unusual cheerful gathering it was. Lowry had to leave on a run to catch

[[end page]]



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[[written vertically in left margin]] Dr. Chambers told me he has reserved appointment of professor of Chemistry, Rochester University. I recommended him to the President Rush Rhees, but Chambers does not know it and I do not want to tell him. [[end marginal note]]

the afternoon train for New York Found [[Reagener?]] there also a certain Mr. Gear or (something similar) who is the chemist of the Goodrich Rubber Co and to whom I showed and explained Bakelite. Took supper at Baskerville's house then went to Chemist Club where Prof. Campbell was giving a lantern lecture on his trip to Polynesia. Afterwards I showed freely my samples of Bakelite to several chemists assembled in the Club room and explained my invention. Patsche and Berolzheimer were present. Mr. Gear brought some business associate [[end page]]

[[start page]]

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to look at my samples.

[[margin note]] May 3. [[/note]] (Sunday) Took a rather restful day. In the afternoon Mr. & Mrs. E. H. Hooker drove up with their Limousine. In another car were Mr. & Mrs. Lanier and another lady. [[/underlined in red]] Showed all my samples of Bakelite to Hooker and his friend and [[/underlined]] explained my invention to them.

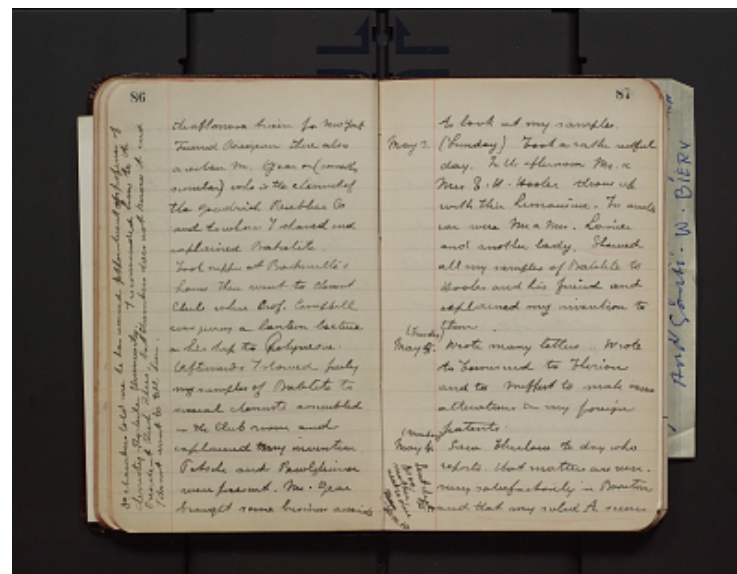
[[margin note]] May 5 ^(Tuesday) [[/note]] Wrote many letters.. Wrote to Townsend to Theriou and to Meffert to make some alterations in my foreign patents.

[[margin note]] May 4 ^(Monday) [[/note]] Saw Thurlow to day who reports. that matters are running satisfactorily in Boonton and that my solid A seems

[[marginal note}} Sent check \$100 to mother Next is due

[[/strickethrough]] May [[/strickethrough]] June 10

[[end page]]



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to be the real thing for molding and seems better than B. It is not so long ago that I had to lose patience when Thurlow was postponing trying this solid A. I always felt that solid A made with ammonia or some other base was the easiest solution of the molding problem.

May 6. Our ball mill is back and Thurlow went away yesterday to purchase a second hand hydraulic press. This will soon enable one to do some molding experiments here. and to make some progress.

[[end page]]

[[start page]]

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I spent afternoon in lab. trying to coat some metallic pieces with Bakelite for General Electric Co.

May 7. Spent all morning examining and writing letters for D. & F. Co wrote also to Higgins in Australia to offer him the

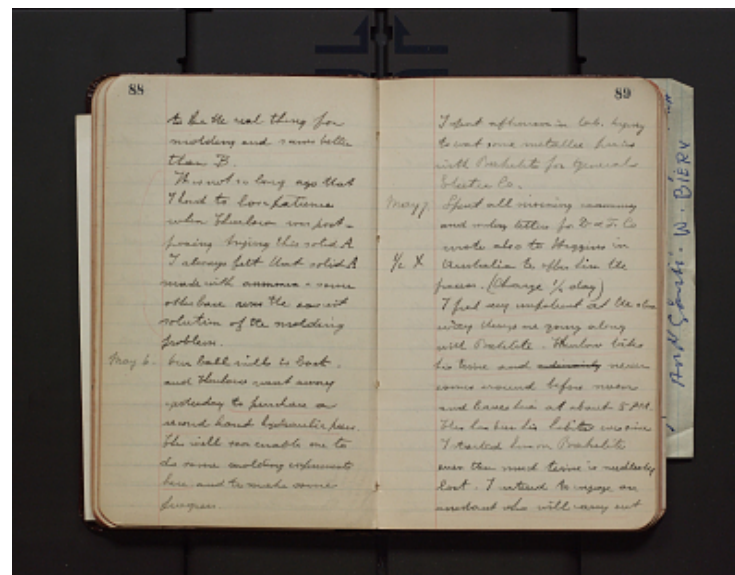
1/2 X in margin process (charge 1/2 day)

I feel very impatient at the slow way things are going along with Bakelite. Thurlow takes his time and ~~ordinarily~~ never comes around before noon and leaves here at about 5 PM. This has been his habits ever since I started him on Bakelite even then much time is needlessly lost.

I intend to engage an assistant who will carry out

[[end page]]

[[end page]]



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my orders on the way I want it and at the time I want it, and who is a more direct help or assistance to me. Thurlow has some excellent qualities but undoubtedly is not very impatient to go ahead.

Since a few days I have had again very poor sleep and I feel nervous very probably on account of general delay in Bakelite matters.

May 8. Went to New York ~~last ev~~ in evening. Took supper at Mouquin there I made the acquaintance of Mr. Tyndale whom I addressed first and invited to sit at my table. Seems a very interesting man and had a very interesting

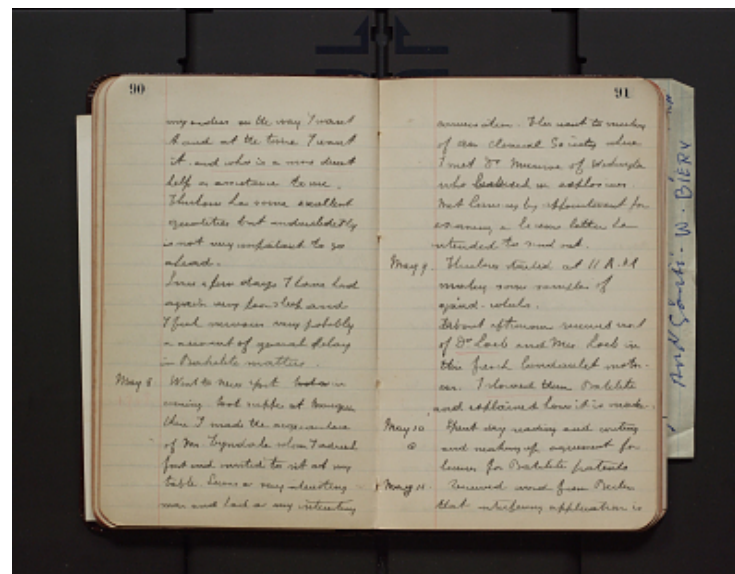
conversation.

Then went to meeting of Am Chemical Society where I met Dr. Munroe of Washington who lectured on explosives. Met Lansing by appointment for examining a license letter he intended to send out.

May 9. Thurlow started at 11 A.M. making some samples of grind-wheels. About afternoon received visit of Dr. Loeb and Mrs. Loeb in their french landaulet motorcar. I showed them Bakelite and explained how it is made.

May 10. Spent day reading and writing and making up agreement for licenses for Bakelite patents.

May 11. Received word from Berlin that interfering application is



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dated Dec 20, 1907. I.e. later than my 13 July 1907 Washington application this gives me priority under international convention rules. Remained most of day in laboratory

May 12. Met Brock, Anthony & Seabury at Lawyers Club. Brock proposes to ~~make~~ reorganize Boonton Rubber Co. Put in \$25000 and give me large share of stock for exclusive license for Bakelite for insulators.

I do not like his proposition. Concluded to think matters over and let him know my decision.

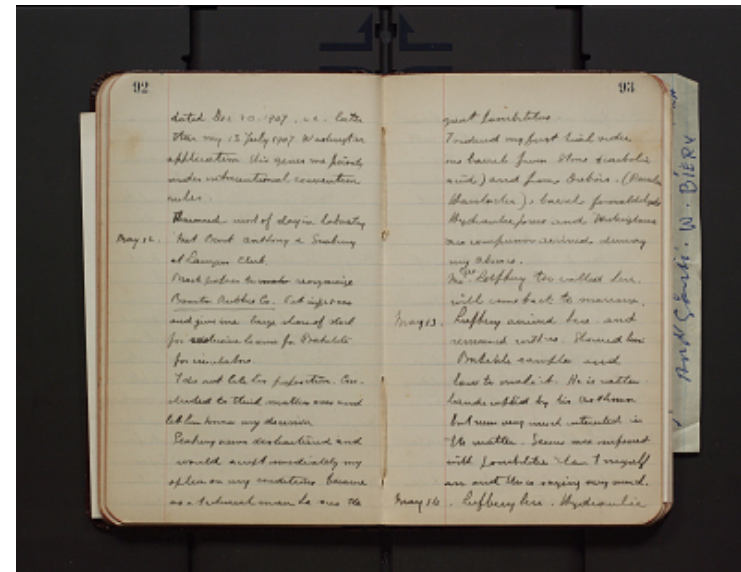
Seabury seems disheartened and would accept immediately my option on my conditions because as a technical man he sees the

great possibilities.

I ordered my first trial order one barrel from Stone (carbolic acid) and from Dubois. (Roessler Hasslacher), barrel formaldehyde Hydraulic press and Westinghouse air compressor arrived during my absence. Mr. Geo. Lufbery too called here. will come back to morrow.

May 13 Lufbery arrived here. and remained with us. Showed him Bakelite samples and how to make it. He is rather handicapped by his asthma but seems very much interested in the matter. Seems more impressed with possibilities than I myself am and this is saying very much.

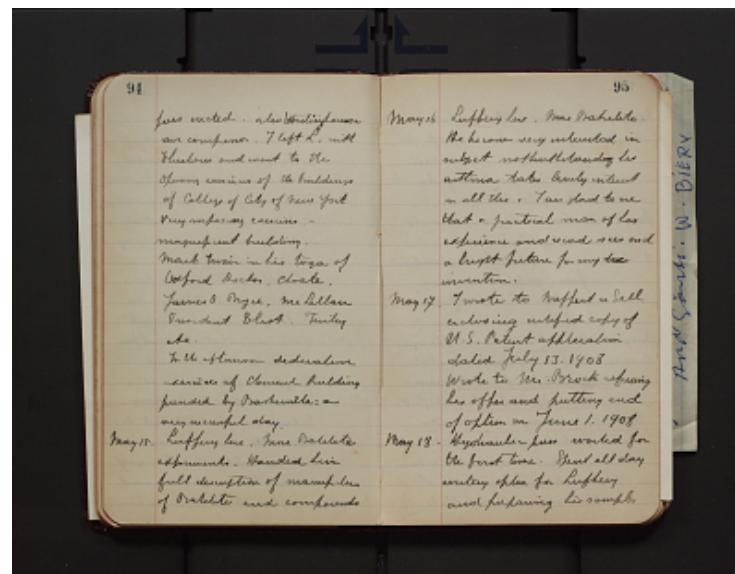
May 14 Lufbery here. Hydraulic



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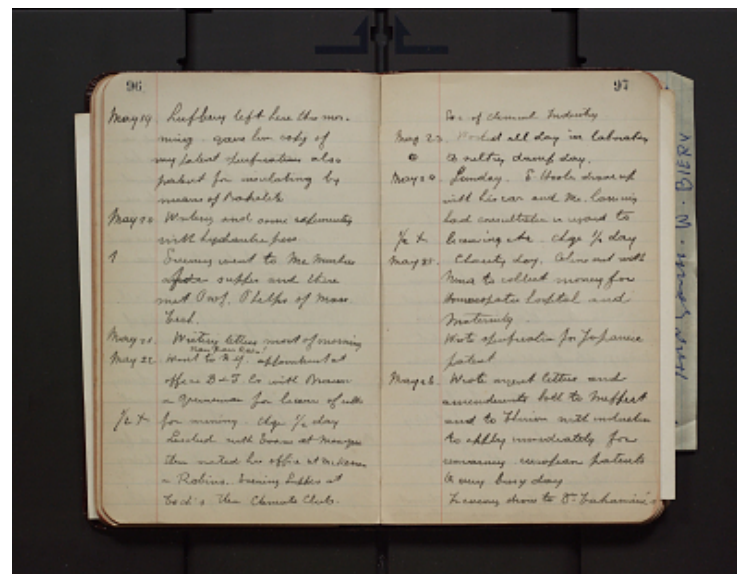
[[preprinted]] 94 [[/preprinted]]
press erected also Westinghouse air compressor. I left L. with Thurlow and went to the opening exercises of the buildings of College of City of New York Very imposing exercises - magnificent building. Mark Twain in his toga of Oxford Doctor. Choate. James O. Bryce. McLellan President elect Finley etc.
In the afternoon dedication exercises of Chemical building presided by Baskerville: a very successful day.
[[margin]] May 15 [[/margin]] Lufbery here. More Bakelite experiments. Handed him full description of manufacture of Bakelite and compounds
[[end page]]

[[start page]]
[[preprinted]] 95 [[/preprinted]]
[[margin]] May 16 [[/margin]] Lufbery here. More Bakelite. He became very interested in subject notwithstanding his asthma takes lively interest in all this. I am glad to see that a practical man of his experience and record sees such a bright future for my ~~invention~~ ~~invention~~ invention.
[[margin]] May 17. [[/margin]]
I wrote to Meffert & Sell enclosing a certified copy of U.S. Patent application dated July 13. 1908
Wrote to Mr. Brock referencing his offer and putting end of option on June 1. 1908
[[margin]] May 18. [[/margin]] Hydraulic press worked for the first time. Spent all day writing option for Lufbery and preparing his samples
[[end page]]



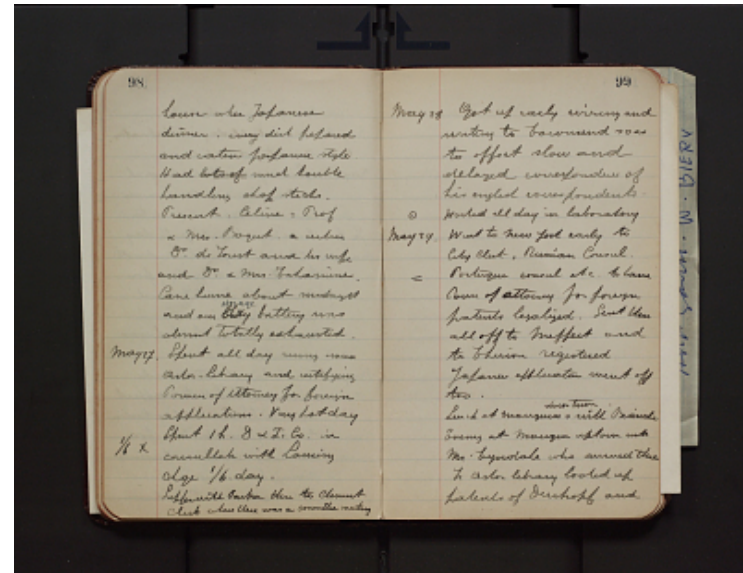
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 May 19 Lufbery left here this morning. gave him copy of my patent specifications also patent for insulating by means of Bakelite
 May 20 Writing and some experimenting with hydraulic press
 1 Evening went to McMurties for supper and there met Prof. Phelps of Mass. Tech.
 May 21 Writing letters most of morning Rain Rain Rain!
 May 22 Went to N.Y. appointment at office D & F. Co with Braun & Gruneman for license of cells
 1/2 X for mining. Chge 1/2 day Lunched with Evans at Mouquin then visited his office at McKesson & Robins. Evening Supper at Toch's then Chemists Club.
 [end page]
 [start page]
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 Soc. of Chemical Industry
 May 23 Worked all day in laboratory a sultry damp day.
 May 24 Sunday. E Hooker drove up with his car and Mr. Lansing had consultation in regard to 1/2 X licencing etc. chge 1/2 day
 May 25 Charity day. Celine out with Nina to collect money for Homoeopatic hospital and Maternity. Wrote specification for Japanese patent
 May 26 Wrote urgent letters and amendments both to Meffert and to Therion with instruction to apply immediately for remaining european patents. A very busy day In evening drove to Dr. Takamine's
 [end page]



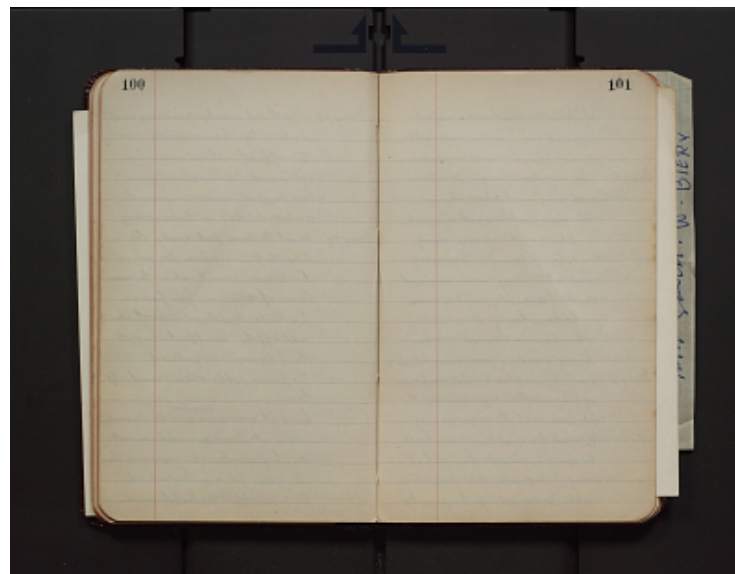
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[[start page]]
 [[preprinted]]98[[/preprinted]]
 house where Japanese dinner. Every dish prepared and eaten Japanese style. Had ~~lots of~~ much trouble handling chop sticks.
 Present. Celine= Prof & Mrs. Boquet a certain Dr. deTourt and his wife and Dr. & Mrs. Takamine. Came home about midnight and our ~~baty~~ storage battery was almost totally exhausted.
 May 27 Spent all day running around Astor - Library and certifying Power of Attorney for foreign applications. Very hot day.
 [[1/6 X in margin]]Spent 1 h. D & F. Co. in consultation with Lansing Chge 1/6 day.
 Supper with Parker then to Chemist Club where there was a committee meeting
 [[end page]]
 [[start page]]
 [[preprinted]]99[[/preprinted]]
 May 28 Got up early revising and writing to Townsend so as to affect slow and delayed correspondence of his english correspondents.
 [[circle with dot in center in margin]] Worked all day in laboratory
 May 29 Went to New York early to City Club, Russian Consul.
 [[= in margin]] Portuguese consul etc. to have power of attorney for foreign patents legalized. Sent them all off to Meffert and to Therion registered Japanese application went off too.
 Lunch at Mouquin ^down town with Bianchi
 Evening at Mouquin uptown with Mr. Tyndale who arrived there In Astor library looked up patents of Durkopf and
 [[end page]]



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[[preprinted]] 100 [[/preprinted]]
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of Smith that were cited against me. Fortunately they do not clash with my claims.

May 30. Decoration day. Worked all day in laboratory. The meanest most disgusted unpleasant rainy day in a long time. Pouring rain all day and so dark that I scarcely could see in laboratory.

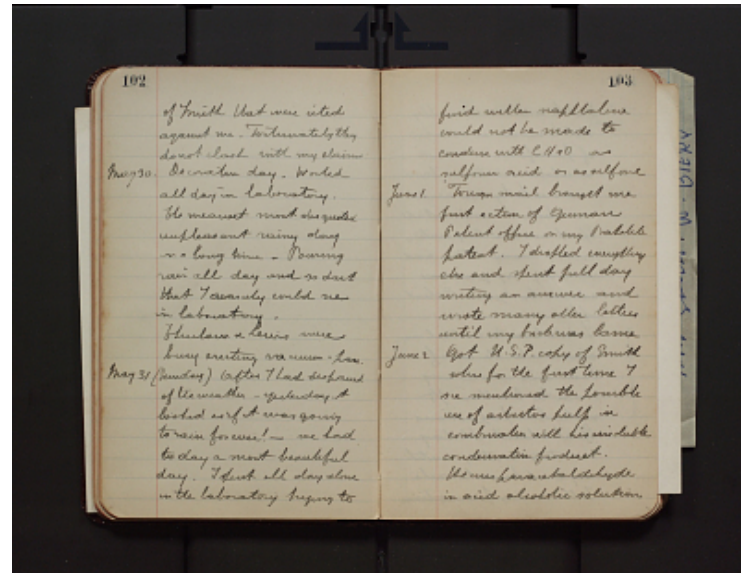
Thurlow & Lewis were busy erecting vacuum - pan.

May 31 (Sunday) After I had despaired of the weather - yesterday it looked as if it was going to rain forever! - we had today a most beautiful day. I spent all day alone in the laboratory trying to

find wether naphthalene could not be made to condense with CH_2O as sulfuric acid or as sulfene

June 1. Foreign mail brought me first action of German Patent office on my Bakelite patent. I dropped everything else and spent full day writing an answer and wrote many other letters until my back was lame.

June 2 Got U.S.P. copy of Smith where for the first time I see mentioned the possible use of asbestos pulp in combination with his insoluble condensation product. He uses paracetaldehyde in acid alcoholic solution



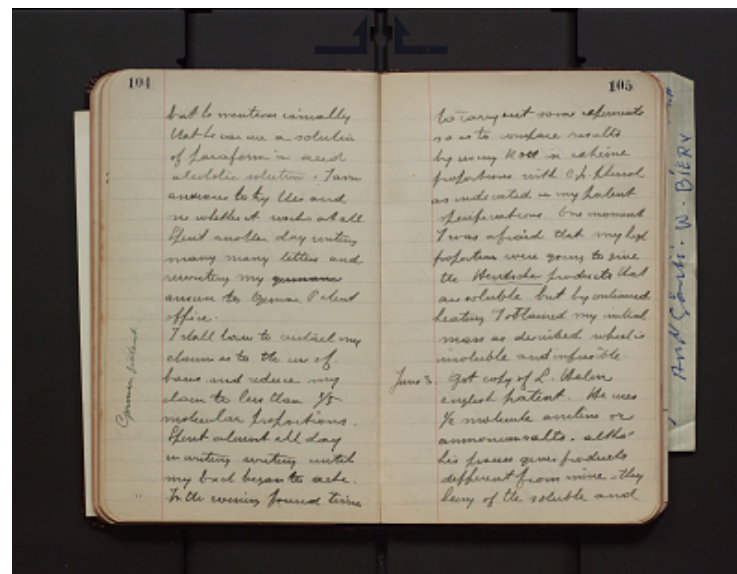
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but to mention incidentally that he can use a solution of paraform in acid alcoholic solution. I am anxious to try this and see whether it works at all. Spent another day writing many many letters and rewriting my German answer to German Patent Office.

German patent
I shall have to curtail my claims as to the use of bases and reduce my claim to less than 1/5 molecular proportions. Spent almost all day in writing writing until my back began to ache. In the evening found time

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to carry out some experiments so as to compare results by using Kott in extreme proportions with c.p. phenol as indicated in my patent specifications. One moment I was afraid that my high proportions were going to give the Hentsche products that are soluble but by continued heating I obtained my initial mass as described which is insoluble and infusible.

June 3.
Got copy of L. Helm english patent. He uses 1/2 molecule aniline or ammonium salts. altho' his process gives products different from mine - they being of the soluble and

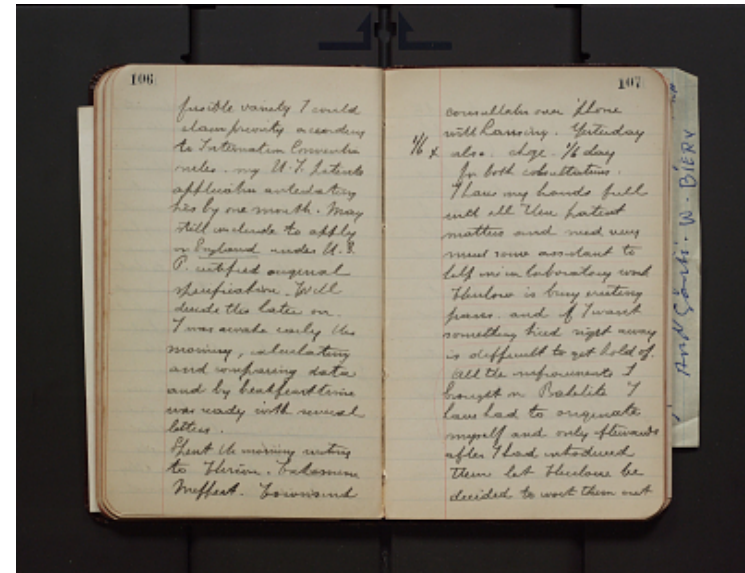


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fusible variety I could claim priority according to International Convention rules. my U. T. patent application antedating his by one month. May still conclude to apply in England under U.S.A. certified original specification. Will decide this later on. I was awake early this morning, calculating and comparing data and by breakfast time was ready with several letters. Spent the morning writing to Therion. Takamine, Meffert. Townsend

[[end page]]
[[start page]]

[[preprinted]] 107 [[/preprinted]]
consultation over phone with Lansing. 1/6 X
Yesterday also chge. 1/6 day for both consultations. I have my hands full with all these patent matters and need very much some assistant to help me in the laboratory work Thurlow is busy erecting pans and if I want something tried right away is difficult to get hold of. All the improvements I brought on Bakelite I have had to originate myself and only afterwards, after I had introduced them let Thurlow be decided to work them out



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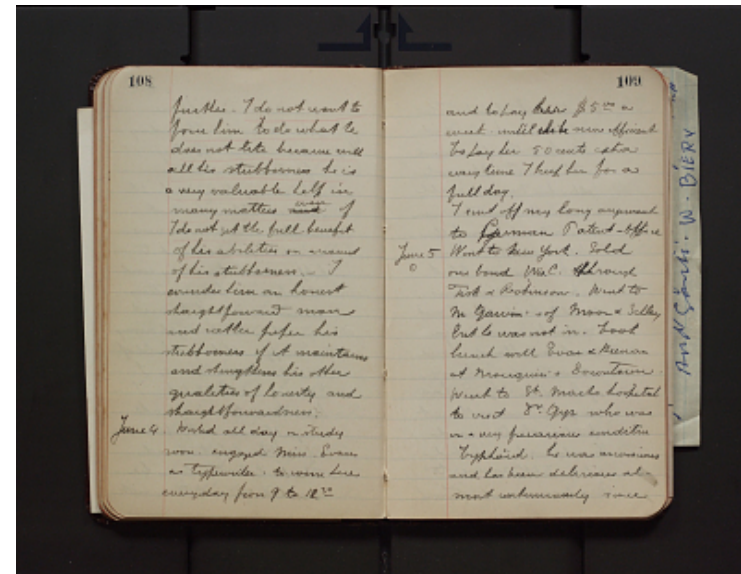
108 I do not want to force him to do what he does not like because with all his stubbornness he is a very valuable help in many matters ~~and~~ even if I do not get the full benefit of his abilities on account of his stubbornness. - I consider him an honest straightforward man and rather prefer his stubbornness if it maintains and strengthens his other qualities of honesty and straightforwardness.

June 4 Worked all day in study room. engaged Miss Evans as typewriter to come here every day from 9 to 12:30

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and to pay her \$5.00 a week until she be more efficient To pay her 50 cents extra every time I keep her for a full day. I sent off my long argument to German Patent office

June 5 Went to New York. Sold one bond Wis.C. through Tish & Robinson. Went to Mr. Garvin's of Moor and Schley but he was not in. Took lunch with Evans and Keenan at Mouquin's Downtown. Went to St. Marks hospital to visit Dr. Gyr who was in a very precarious condition Typhoid. he was unconscious and has been delirious almost continuously since



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he entered hospital. This is the reason why he did not keep his appointment with me. I left a note telling him I would call again. His condition seems very critical. - Poor fellow - I shall write to Dreyfuss that he may ~~call~~ let it be known to other Swiss. Went to Toch there I met Baskerville and then went to Holland house where Gordon Salomon of London. G.S. had the gout and with cut open torn slippers and tuxedo coat - walked along Fifth Avenue to Martins - guests of Toch

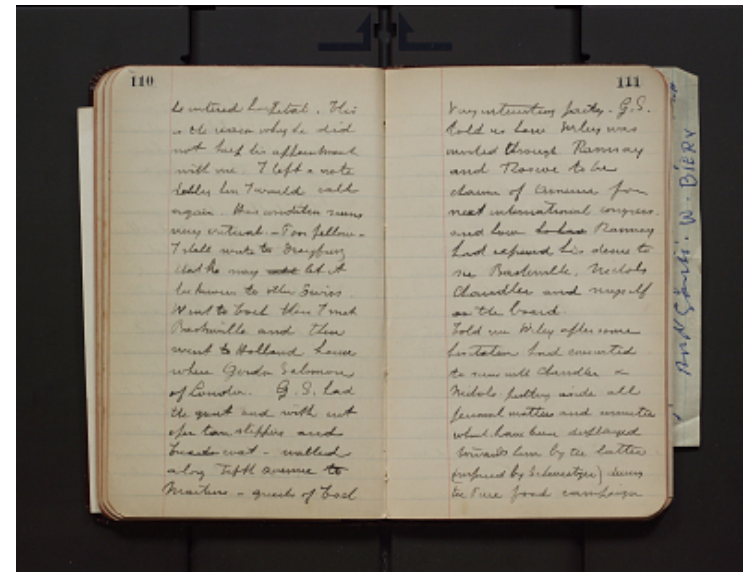
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Very interesting party. G.S. told us how Wiley was invited through Ramsay and Roscoe to be chairman of American for next international congress and how ~~he has~~ Ramsay had expressed his desire to see Baskerville, Nichols Chandler and myself on the board.

Told me Wiley after some hesitation had consented to serve with Chandler & Nichols putting aside all personal matters and enmities which have been displayed towards him by the latter (inspired by Schweitzer) during the Pure food campaign



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But when G.S. came to Nichols he latter refused to serve with Wiley. Then he altered his decision saying that if Chandler consented to serve he would do so too. Chandler consented so now Nichols consented. G.S. told me that Nichols spoke very well of me. All what they want now is that Wiley should invite Schweitzer and give the latter a chance to decline if he thinks it advisable to do so. After the supper drove to the Chemist Club in ~~an~~ auto taximeter. Chandler lectured on artificial silk. I made arrangement with

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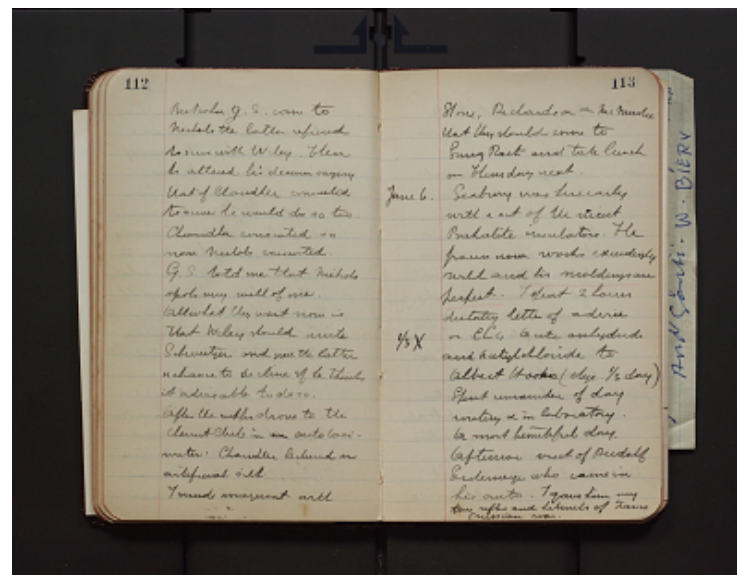
Stone, Richardson & McMurtrie that they should come to Snug Rock and take lunch on Thursday next.

June 6 Seabury was here early with a set of the recent Bakalite insulators. The process now works exceedingly well and his moldings are perfect. I spent 2 hours dictating letter of advice

[[margin]] 1/3 X [[/margin]]

on CC4 acete anhydride and acetylchloride to Albert Hooker (chge 1/3 day)

Spent remainder of day writing & in laboratory. A most beautiful day. Afternoon visit of Rudolf Erdemeyer who came in his auto. I gave him my two rifles and helmets of Franco Prussian war.



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George went out to the Palisades on an expedition with Leo Williams

June 7 Beautiful Sunday weather. Spent morning writing many letters. The Baskervilles arrived here at noon with their children. Spent day here and were driven home by Lewis at 8 P.M. A very very agreeable day. I showed to B. my latest results with Bakelite.

June 8 A very busy day dictating letters and work in laboratory Thurlow still busy erecting vacuum fan with Lewis

June 9 Went to N.Y. early. at 11 A. M. had consultation with

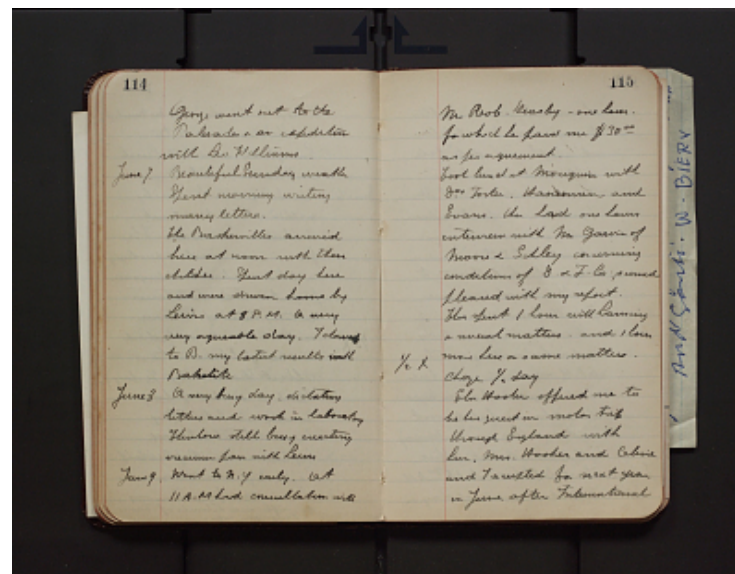
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Mr. Rob. Beasley - one hour for which he paid me \$30.00 as per agreement.

Took lunch at Mouquin with Dr. Foster. Harriman and Evans. Then had one hours interview with Mr. Garvin of Moore and Schley concerning conditions of D. & F. Co., seemed pleased with my report. Then spent 1 hour with Lansing on several matters and 1 hour more here on same matters.

1/2 X chge 1/2 day

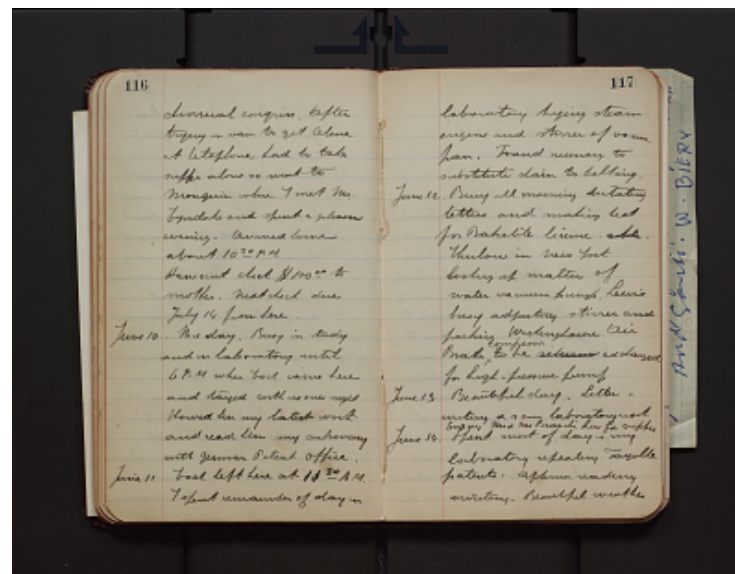
Elon Hooker offered me to be his guest on motor trip through England with him, Mrs. Hooker and Celine and I accepted for next year in June after International



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chemical congress. After trying in vain to get Celine at telephone had to take supper alone so went to Mouquin where I met Mr. Tyndale and spent a pleasant evening. Arrived home about 10.30 P.M. Have sent check \$100.00 to mother. Next check due July 14 from here. [[margin]] June 10 [[/margin]] Nice day. Busy in study and in laboratory until 6 P.M. when Toch came here and stayed with us over night. Showed him my latest work and read him my controversy with German Patent Office. [[margin]] June 11 [[/margin]] Toch left here at 11.30 A.M. I spent remainder of day in
[[end page]]

[[start page]]
[[preprinted]] 117 [[/preprinted]]
laboratory trying steam engine and stirrer of vacuum pan. Found necessary to substitute chain to belting. [[margin]] June 12 [[/margin]] Busy all morning dictating letters and making test for Bakelite license. ~~asked~~ Thurlow in New York looking up matter of water vacuum pump. Lewis busy adjusting stirrer and packing Westinghouse Air Brake ^{compressor} ~~to be~~ ~~returne~~ exchanged for high-pressure pump
[[margin]] June 13 [[/margin]] Beautiful day. letter writing and some laboratory work
Evening Mr & Mrs Branchi here for supper
[[margin]] June 14 [[/margin]] Spent most of the day in my laboratory repeating Fayolle patents. Afternoon reading and writing. Beautiful weather



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June 15 Rain all day. Wrote some letters but did nothing in lab.

June 16 Cooler clearer weather.

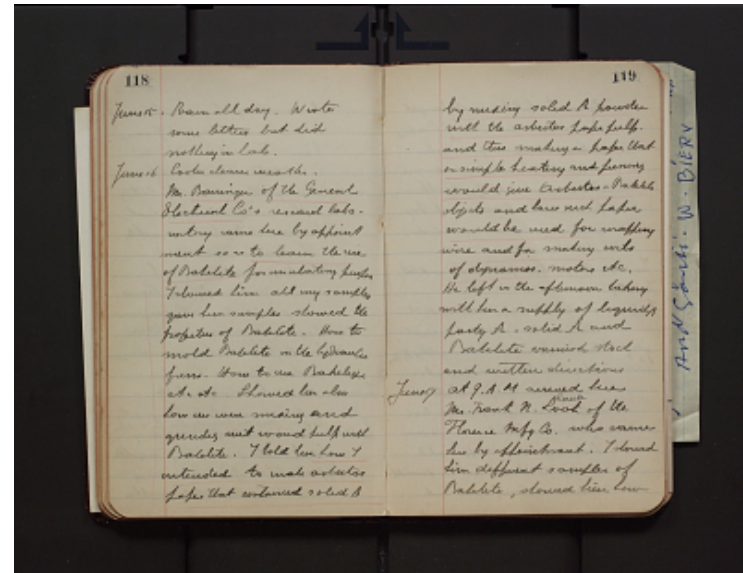
Mr. Barringer of the General Electrical Co's research laboratory came here by appointment so as to learn the use of Bakelite for insulating purposes. I showed him all my samples gave him samples showed the properties of Bakelite. How to mold Bakelite in the hydraulic press. How to use Bakelizer etc. etc. Showed him also how we were mixing and grinding wet wood pulp with Bakelite. I told him how I intended to make asbestos paper that contained solid A [[end page]]

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by mixed solid A powder with the asbestos paper pulp and thus making a paper that on simple heating and pressing would give Asbestos-Bakelite objects and how such paper would be used for wrapping wire and for making coils of dynamos, motors etc. [[end page]]

He left in the afternoon taking with him a supply of liquid ^ pasty A. solid A and Bakelite varnish stock and written directions

June 19 At 9 A.M arrived here Mr. Frank N. Look ^ Louck of the Florence Mfg Co. who came here by appointment. I showed him different samples of Bakelite, showed him how [[end page]]



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to use Bakelite and taught him general properties of Bakelite he too seemed very much interested and promised me to send molds for toothbrushes so that we might try and see what we would do. Left here at noon.

June 18 Busy all day in study and lab.

June 19 Same.

June 20 Dictated letter till 10 P.M then went to New York. Spent two hours with Lansing chge 1/3 day 1/3 X.

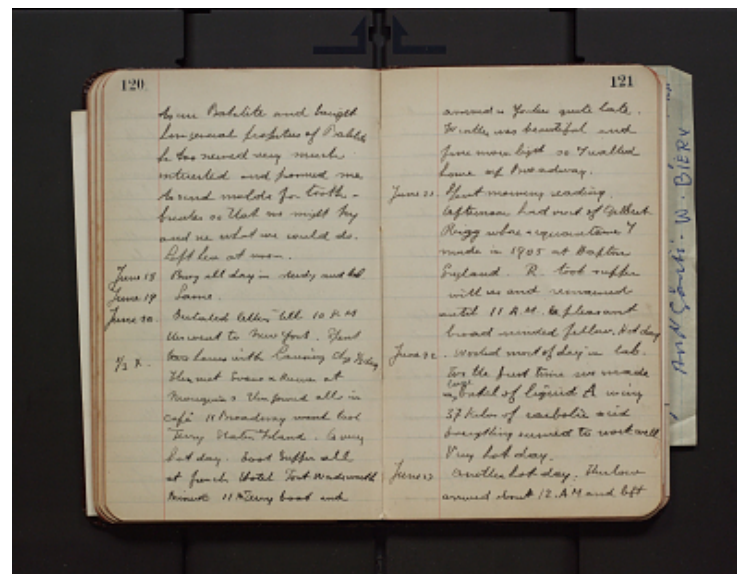
then met Evans & Keeman at Mouquin's then found all in cafe 11 Broadway ~~went~~ took Ferry Staten Island. A very hot day. Took supper all at French Hotel Fort Wadsworth 11. Ferry boat and

arrived in Yonkers quite late. Weather was beautiful and June moon light so I walked home up Broadway,

June 21 Spent morning reading. Afternoon had visit of Gilbert Rigg whose acquaintance I made in 1905 at Hapton England. R. took supper with us and remained until 11 A.M.. A pleasant broad minded fellow. Hot day

June 22. Worked most of day in lab. For the first time we made a large batch of liquid A using 37 kilos of carbolic acid Everything seemed to work well. Very hot day.

June 23 Another hot day. Thurlow arrived about 12.AM and left



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about 1 P.M. I spent most of the day dictating letters and writing text for Mexican patent application.

•

Slept badly

June 24 Mr. Seabury was here early brought samples and asked advice about molding. See laboratory notes. A very hot and sultry day but there is some breeze.

June 25 Went to New York to legalize Power attorney Italian patents and to sent off Mexican Patent 1/3 X

Spent from 3 to 5 at D. & F. Co. chge. 1/3 day
June 26 Mr. Stolmeyer of Underwood & Underwood came to see me so as to have my opinion about the developed prints they were making and so as

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to see whether I would go up to Arlington N.J. and inspect their plant and give my opinion about their crating plant.

June 27. A very hot day.

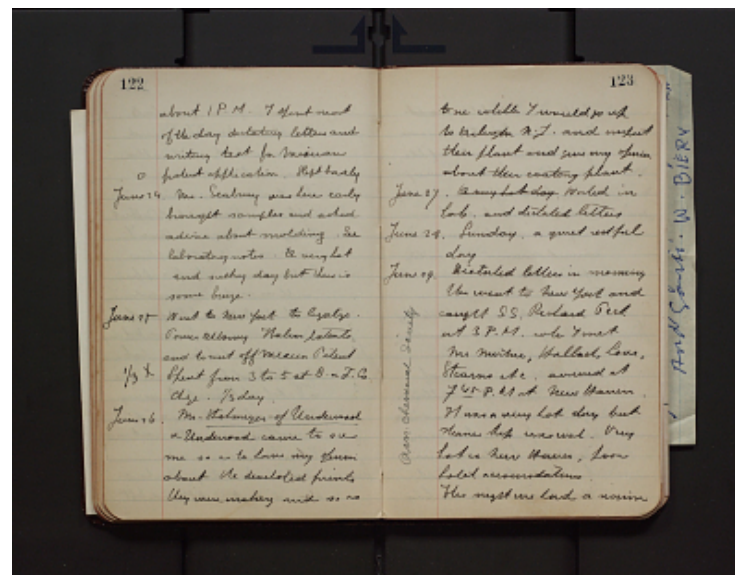
~~Worked in lab. and dictated letters.~~

June 28. Sunday. a quiet restful day.

June 29. Dictated letters in morning then went to New York and caught SS Richard Peck at 3 P.M. where I met McMurtrie, Holland,

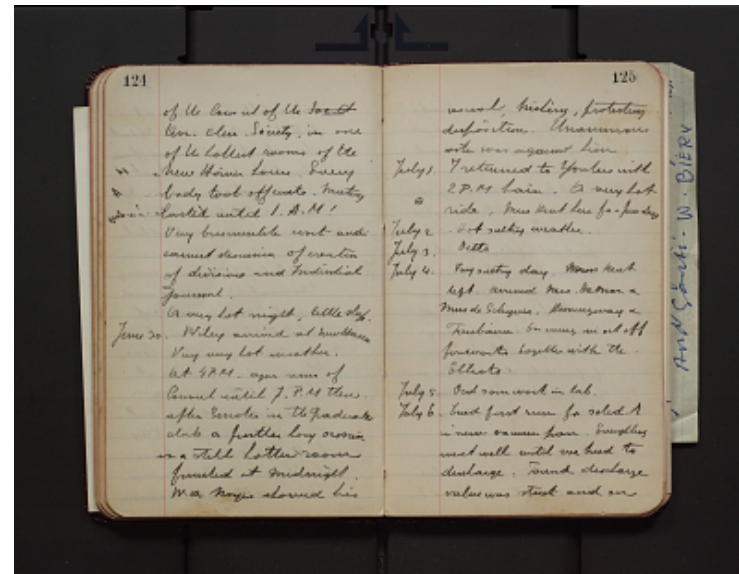
Am. Chemical Society

Love, Stearns, etc. arrived at 7:45 P.M at New Haven. It was a very hot day but steamer ship unusual. Very hot in New Haven. Poor hotel accomodations. This night we had a session



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of the Council of the ~~Soc. Ch.~~ Am. Chem. Society, in one of the hottest rooms of the New Haven house. Every body took off coats. Meeting lasted until 1 A.M.! Very businesslike event and earnest discussion of creation of divisions and Industrial Journal.
A very hot night, little sleep.
June 30. Wiley arrived at New Haven Very very hot weather. At 4 P.M. open session of Council until 7 P.M then after Smokesi in the Graduates club a further long session in a still hotter room finished at midnight. W.A. Noyes showed his
end page
start page
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usual kicking, protesting disposition. Unanimous vote was against him.
July 1. I returned to Yonkers with 2 P.M. train.
A very hot ride. Mrs. Kent here for a few days.
July 2. Hot sultry weather.
July 3. Ditto
July 4. Very sultry day. Mrs. Kent left. Arrival Mrs. Oeman & Mrs. de Schryver. Hemingway & Taubairn. In evening we set off fireworks together with the Elliots.
July 5. Did some work in lab.
July 6. Tried first run for solid A in new vacuum pan. Everything went well until we had to discharge. Found discharge valve was stuck and on



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trying to open some broke teeth of gear. A very hot day and very hot work near boiler.

July 6. Went to N.Y. with Oppenheimer motor car. Selysberg sold 100 N.Y. air brake at 68.

~~Spent all afternoon at office of D. & F. Co. in conference with Prof. Church then with Lansing.~~

1/2 x

Charge 1/2 day A blazing hot day. preferred to stay in town and take supper at Mouquins then take subway after rush was over.

July 7. Lewis has succeeded in stuck valve. I feel very tired because I

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had little sleep on account of chafed skin.

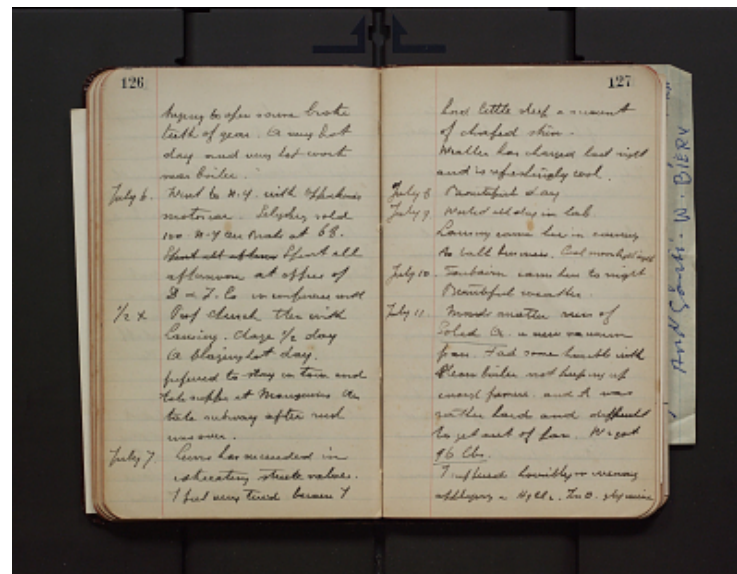
Weather has changed last night and is refreshingly cool.

July 8. Beautiful day

July 9. Worked all day in lab. Lansing came here in evening to talk business. Cool moonlight night.

July 10. Fairburn came here to night. Beautiful weather.

July 11. Made another run of Solid A. in new vacuum pan. Had some trouble with steam boiler not keeping up enough pressure and A was rather hard and difficult to get out of pan. We got 96 lbs. I suffered horribly in evening applying a HgCl₂. Zn O. glycerine



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paste to chafed parts of body. Finally succeeded in falling asleep.
[[margin]] July 12. [[/margin]] A very hot day, Kept quiet and wrote some letters.

[[margin]] July 13. [[/margin]] Very hot day. Usual work

[[margin]] July 14. [[/margin]] Made a more successful run of solid A. Very hot during

[[margin]] [[Image - circle with a dot]] [[/margin]] morning and afternoon. In afternoon finally rain & wind storm & general cooling off.

George behaved very brutally towards Nina beating her when she came up hill with parts of his tents. Reprimands, tears & punishment.

Celine and I tried the hammock

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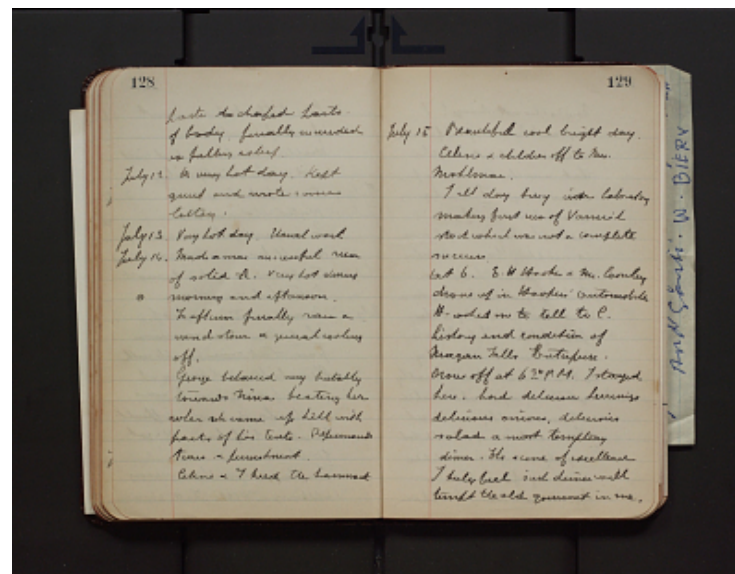
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[[margin]] July 15 [[/margin]] Beautiful cool bright day. Celine and children off to Mrs. Mohlman

I all day busy in laboratory making first run of Varnish stock which was not a complete success.

At 6. E.H. Hooker and Mr. Crowley drove up in Hookers' automobile. H. asked me to tell to C. history and condition of Niagara Falls Enterprise. Drove off at 6:30 P.M. I stayed here. had delicious herrings delicious onions, delicious salad. a most tempting dinner. The acme of excellence. I truly feel such dinner will tempt the old gourmet in me.



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Now is this not strange? I very much love my wife and children and yet I feel that now they are away for a few days I am having a vacation. Why do I feel so? My way of living is simpler than ever before. nothing special happens. It is this fact that every change is welcome. Variety is the spice of life. I shall go to bed earlier than usually. get thru my meals earlier than usually and yet I am not sorry at all that my dear wife and children are away for awhile.

for - awhile. I suppose

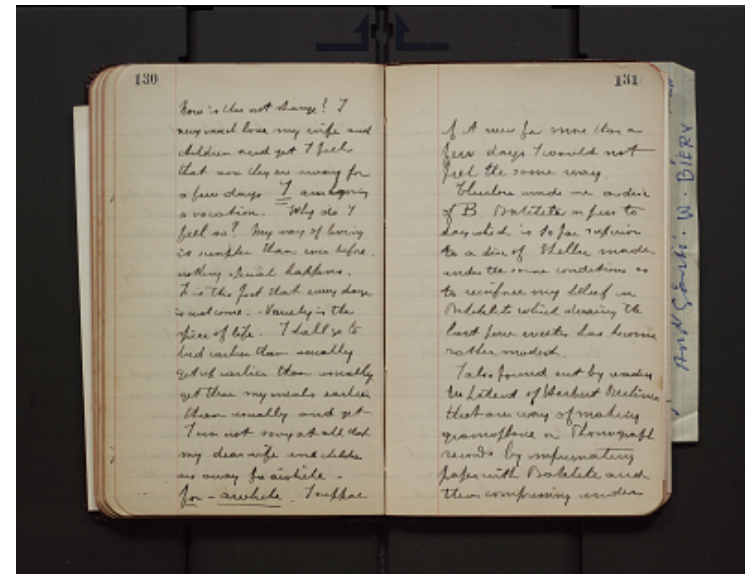
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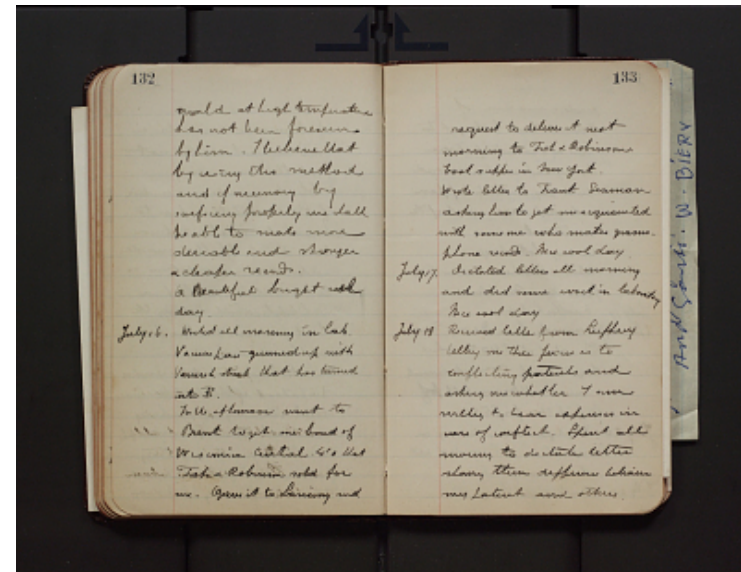
if it were for more than a few days I would not feel the same way. Thurlow made me a disc of B. Bakelite on press to day which is so far superior to a disc of Shellac made under the same conditions as to reinforce my belief in Bakelite which during the last few weeks has become rather modest.

I also found out by reading the patent of Herbert Berliner that our way of making gramophone or Phonograph records by impregnating paper with Bakelite and then compressing under



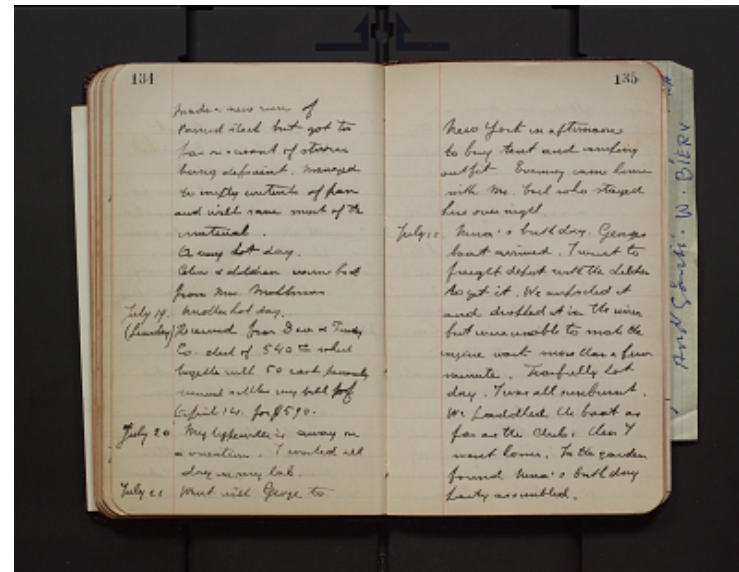
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 mould at high temperatures has not been foreseen by him. I believe that by using this method and if necessary by refining properly we shall be able to make more durable and stronger & cheaper records.
 A beautiful bright cool day.
 [[margin]] July 16. [[/margin]] worked all morning in lab. Vacuum pan gummed up with Varnish stock that has turned into B.
 In the afternoon went to Brents to get one bond of Wisconsin Central 4's that Fisk & Robinson sold for me. Gave it to Lansing with
 [[end page]]
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 request to deliver it next morning to Fisk & Robinson. Took supper in New York.
 Wrote letter to Frank Seaman asking him to get me acquainted with someone who makes gramophone records. Nice cool day.
 [[margin]] July 17. [[/margin]] Dictated letters all morning and did some work in laboratory. Nice cool day.
 [[margin]] July 18 [[/margin]] Received letter from Lufbery telling me their process as to conflicting patents and asking me whether I am willing to bear expenses in case of conflict. Spent all morning to dictate letter showing them differences between my patent and others.
 [[end page]]



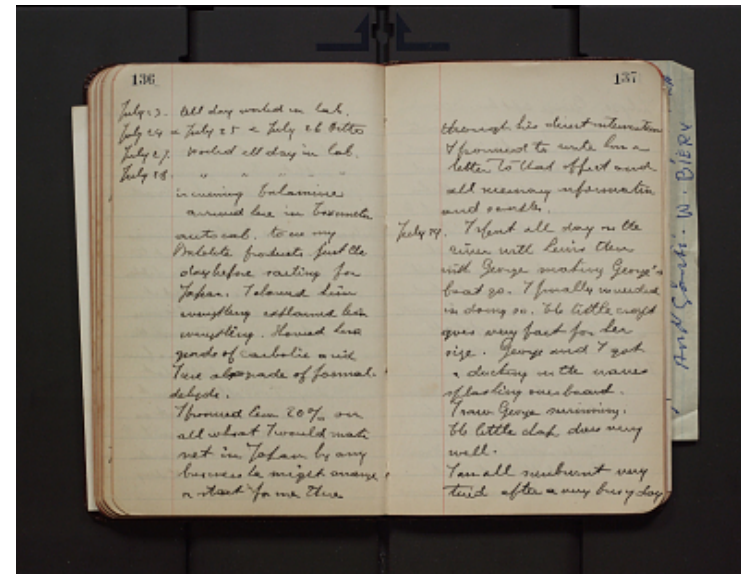
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made new run of
 turned steel but got too
 far on account of stirrer
 being deficient. Managed to
 empty contents of pan and will
 save most of the material.
 A very hot day.
 Celine & children now back
 from Mrs. Mohlman.
 July 19 (Sunday) Another hot
 day. Received from Dev & Funding
 Co. check of 540.00 which together
 with 50 cash previously received
 settles my bill of April 14 for \$590.
 My typewriter is away on a
 vacation. I worked all day in my
 lab.
 July 21 Went with George to
 New York in afternoon to buy
 tent and camping outfit. Evening
 came home with Mr. Toch who
 stayed here over night.
 Nina's birthday. Georges boat
 arrived. I went to freight depot
 with the children to get it. We
 unpacked it and dropped it in the
 river but were unable to make
 the engine work more than a few
 minutes. Fearfully hot day. I was
 all sunburnt. We paddled the
 boat as far as the Club. Then I
 went home. In the garden found
 Nina's birthday party assembled.



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[[preprinted]] 136 [[/preprinted]]
 [[margin]] July 13. [[/margin]] All day worked in lab.
 [[margin]] July 24 [[/margin]] & July 25 & July 26 ditto
 [[margin]] July 27. [[/margin]] Worked all day in lab.
 [[margin]] July 28. [[/margin]] " " " "
 in evening Takamine arrived here in Taximeter autocab. to see my Bakelite products just the day before sailing for Japan. I showed him everything explained him everything. Showed him grade of carbolic acid I use also grade of formaldehyde.
 I promised him 20% on all what I would make net in Japan by any business he might arrange or start for me there
 [[end page]]
 [[start page]]
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 through his direct intervention I promised to write him a letter to that effect and all necessary information and samples.
 [[margin]] July 29. [[/margin]] I spent all day on the river with Lewis then with George making George's boat go. I finally succeeded in doing so. The little craft goes very fast for her size. George and I got a ducking in the waves splashing overboard. I saw George swimming. The little chap does very well.
 I am all sunburnt very tired after a very busy day
 [[end page]]



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July 30 George left here in the morning with permission to try to run his "Mermaid". The little chap returned at noon elated with his success. When I went to see him on the river. He ran his little craft with astonishingly great skill and operated as if he had handled the boat for months. I felt very glad of it all.

~~in the afternoon July 30~~

July 31 I went to Hastings to buy Mr. Woche motor boat because I judge George's boat too small to feel safe. Thurlow was with me. Quite a stiff breeze. We brought the boat back. Some trouble with the engine.

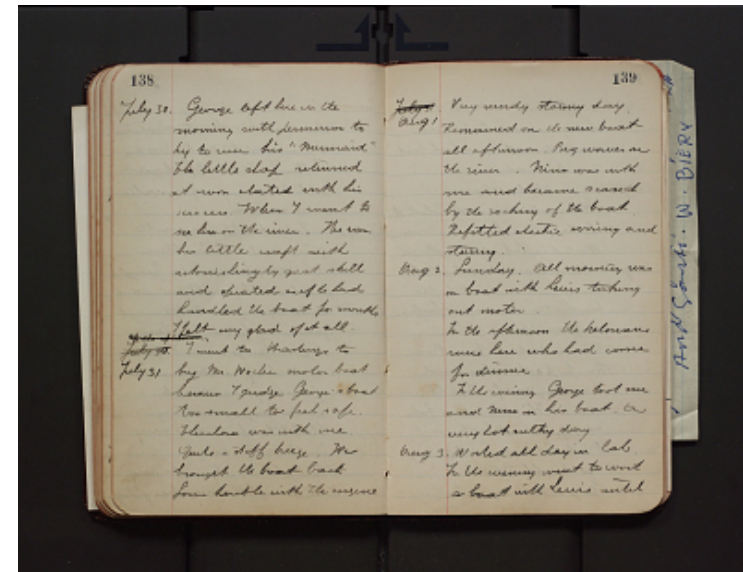
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~~July 31~~

Aug 1 Very Windy stormy day. Remained on the new boat all afternoon. Big waves on the river. Nina was with me and became scared by the rocking of the boat. Refitted electric wiring and steering.

Aug 2 Sunday. All morning was on the boat with Lewis taking out motor. In the afternoon the Kelmans were here who had come for dinner. In the evening George took me and Nina in his boat. A very hot sultry day.

Aug 3. Worked all day in lab. In the evening went to work on boat with Lewis until



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supper time. Broke two lag screws which were rusted and by which boat was fastened.

Aug. 4 A very hot sultry day. We made a run of Solid A better than previous ones. Worked in lab. during afternoon.

Aug. 5 A still more sultry hot day. Lewis went to the boat in the morning. Thurlow is in New York. Received check from Boonton for part order and a new order for 300 lbs. more. This makes me feel very good. it looks as if Bakelite was not going to disappoint me.

George and Nina are fishing

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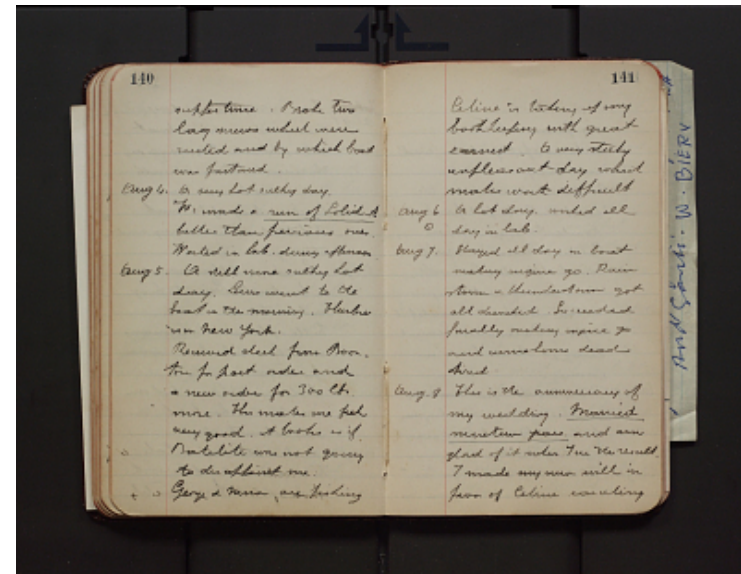
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Celine is taking up my bookkeeping with great earnest. A very sticky unpleasant day which makes work difficult.

Aug 6 A hot day. worked all day in lab.

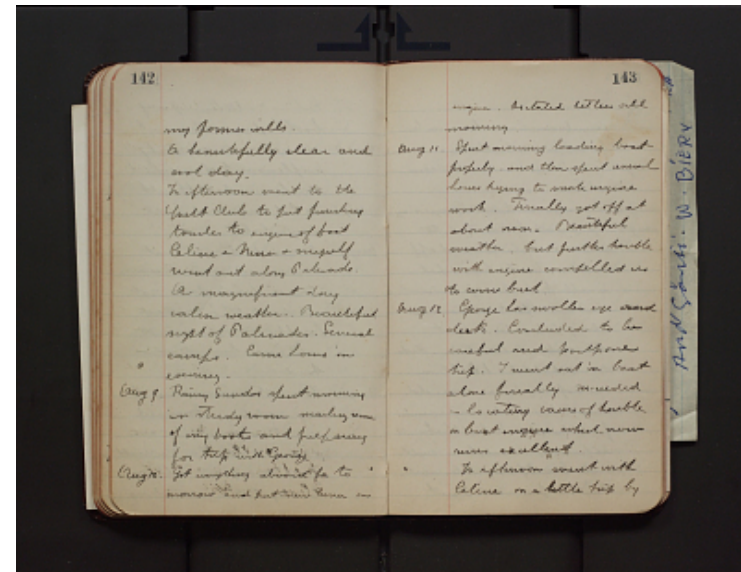
Aug 7 Stayed all day in boat making engine go. Rain storm and thunderstorm got all drenched. Succeeded finally making engine go and came home dead tired.

Aug. 8 This is the anniversary of my wedding. Married nineteen years and am glad of it when I see the result. I made my new will in favor of Celine canceling



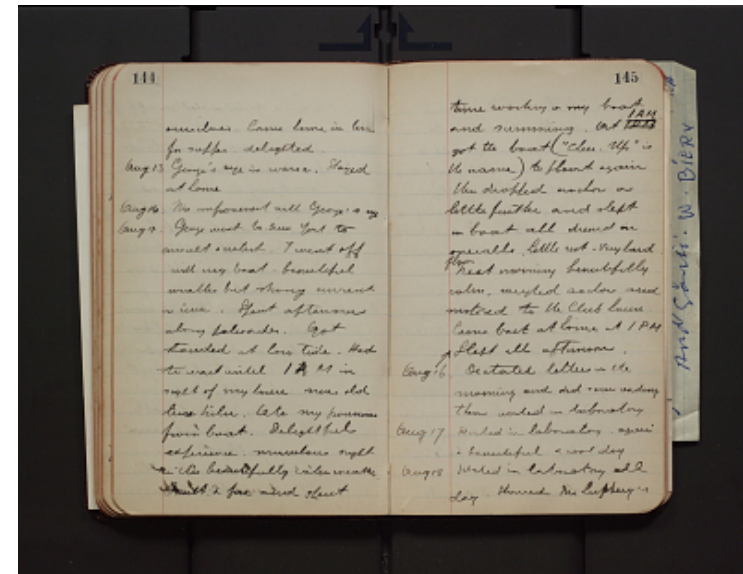
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 my former wills.
 A beautifully clear and cool day.
 In afternoon went to the Yacht Club to put finishing touches to engine of boat Celine & Nina & myself went out along Palisade. A magnificent day calm weather. Beautiful sight of Palisades. Several camps. Came home in evening. [[margin]] [[Image - circle with dot in center]] [[/margin]]
[[margin]] Aug 9. [[/margin]] Rainy Sunday spent morning in study room mailing some of my books and preparing for trip with George.
[[margin]] Aug 10. [[/margin]] Got everything aboard for to morrow and put new liner on
 [[end page]]
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 [[preprinted]] 143 [[/preprinted]]
 engine. Dictated letters all morning.
[[margin]] Aug. 11. [[/margin]] Spent morning loading boat properly and then spent several hours trying to make engine work. Finally got off at about noon. Beautiful weather but further trouble with engine compelled us to come back.
[[margin]] Aug 12. [[/margin]] George has swollen eye and cheek. Concluded to be careful and postpone trip. I went out in boat alone finally succeeded in locating cause of trouble on boat engine which now runs excellent.
 In afternoon went with Celine on a little trip by
 [[end page]]



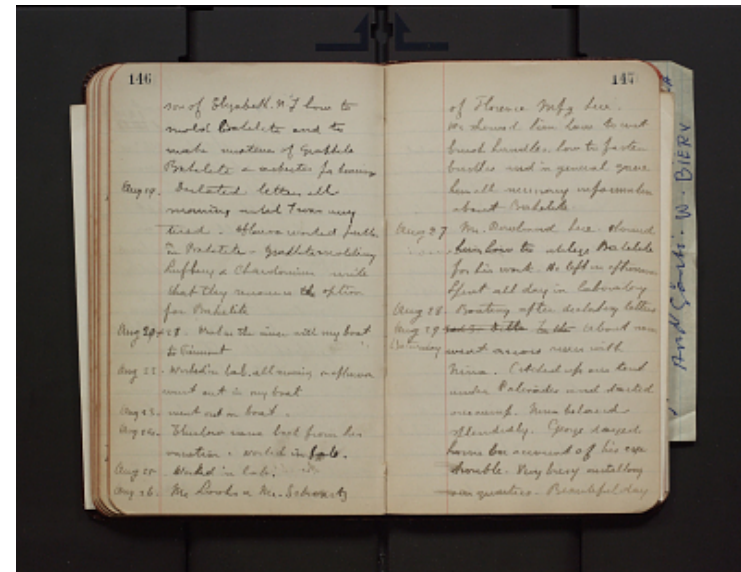
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ourselves. Came home in time for supper delighted.
 Aug. 13 George's eye is worse. Stayed at home
 Aug 14. No improvement with George's eye
 August 15. George went to New York to consult
 oculist. I went off with my boat. beautiful weather but strong current in
 river. Spent afternoon along palisades. Got stranded at low tide. Had
 to wait until 1 A.M. in sight of my house near old lime kiln. Ate my
 provisions from boat. Delightful experience. marvelous sight in this
 beautifully calm weather. Built a fire and spent
 time working on my boat and swimming. At ~~1 P.M.~~
 1 AM got the boat ("Cheer Up" is the name) to float
 again then dropped anchor a little further and slept in boat all dressed in
 overalls. Little rest. Very hard floor. Next morning beautifully calm.
 weighed anchor and motored to the Club house. Came back at home at
 1 P.M. Slept all afternoon.
 Aug. 16 hand drawn arrow pointing to previous
 sentence
 Dictated letters in the morning and did some reading. Then worked in
 laboratory.
 Aug 17 Worked in laboratory again a beautiful &
 cool day.
 Aug 18 Worked in laboratory all day. Showed Mr.
 Lufbery's



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[[preprinted]] 146 [[/preprinted]]
 son of Elizabeth, N.J. how to mold Bakelite and to make mixtures of graphite and Bakelite & asbestos for bearings.
 Aug 19. Dictated letters all morning until I was very tired. Afternoon worked further on Bakelite - graphite molding. Lufbery & Chardonier write that they renounce the option for Bakelite.
 Aug 20 & 21. Went on the river with my boat to Piermont.
 Aug 22. Worked in lab. all morning In afternoon went out in my boat.
 Aug 23. went out on boat.
 Aug 24. Thurlow came back from his vacation. Worked in lab.
 Aug 25. Worked in lab.
 Aug 26. Mr. Looks & Mr. Schwartz
 [[end page]]
 [[start page]]
 147
 of Florence Mfg. here. We showed him how to coat brush handles, how to fasten bristles and in general gave him all necessary information about Bakelite.
 Aug 27. Mr. Rowland here. showed him how to utilize Bakelite for his work. He left in afternoon. Spent all day in laboratory
 Aug 28. Boating after dictating letters.
 Aug 29 (Saturday ~~and~~) and 30 Ditto In the ~~the~~ about noon went across river with Nina. Pitched up our tent under Palisades and started our camp. Nina behaved splendidly. George stayed home on account of his eye trouble. Very busy installing our quarters. Beautiful day
 [[end page]]



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both took long swim. During night felt rather cold. No bother with mosquitoes but many grasshoppers. Pretty hard sleeping on hard ground. In the middle of the night we got both awakened by a rather sharp rumbling noise: Stones from cliffs rolling down. I conclude that our camping site is a rather dangerous one. Next morning early Nina went out rowing then after breakfast we went again swimming. Beautiful weather. I built a landing place by piling up stones along big beam for attaching

[[end page]]

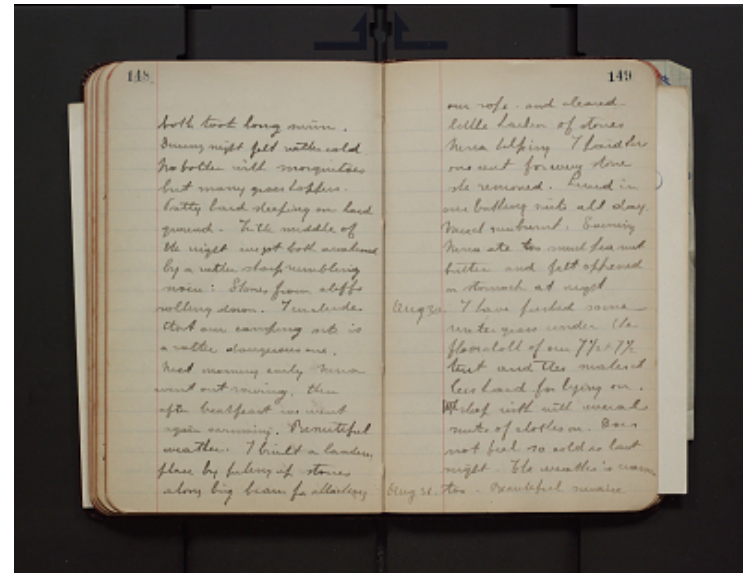
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our rope and cleared little harbor of stones Nina helping I paid her one cent for every stone she removed. Lived in our bathing sits all day. Much sunburnt. Evening Nina ate too much peanut butter and felt oppressed in stomach at night.

Aug 30 I have pushed some water grass under the floor cloth of our 7 1/2 x 7 1/2 tent and this makes it less hard for lying on. We sleep with several suits of clothes on. Does not feel so cold as last night. The weather is warmer too.

Aug 31 Beautiful sunrise

[[end page]]



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very calm river. I begin to be used to sleep on hard ground but Nina is fretting and in bad humor and seems to have still trouble with stomach. In the morning went to Club house for new provisions of bread and butter. We come back together with George, Nina and the two Walker boys and spent all day swimming & building fires until evening. I went to sleep at "Snug Rock" Am not used any longer to soft beds. We left our tent standing and I put some of my

[[end page]]

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[[preprinted]] 151 [[/preprinted]]

supplies in a caché.

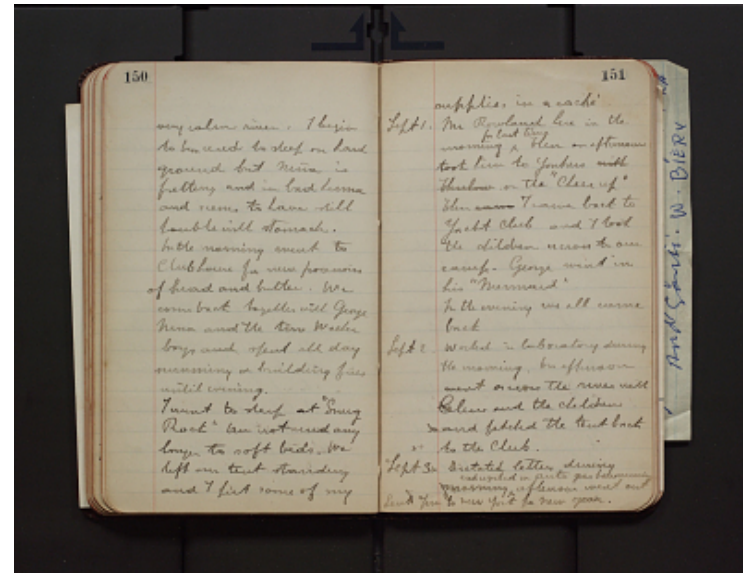
[[margin]] Sept 1. [[/margin]] Mr. Rowland here in the morning ^[[insertion]]for last time [[/insertion]] Then in afternoon took him to Yonkers ~~with Thurlow~~ on the "Cheer up" then ~~came~~ I came back to Yacht Club and I took the children across to our camp. George went in his "Mermaid".

In the evening we all came back

[[margin]] Sept 2. [[/margin]] Worked in laboratory during the morning. In afternoon went across the river with Celine and the children and fetched the tent back to the Club.

[[margin]] Sept 3. [[/margin]] Dictated letters during morning ^[[insertion]] and worked on auto gear transmission [[/insertion]] afternoon went out. Sent [[Jim?]] to New York for new gear.

[[end page]]



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in "Cheer up" with Thurlow Willard Hooker & a certain Mr. Montgomery of Rye who had come to visit me and took lunch with us. I came back alone and went further along the river & visited Mr. Hagerman and Dr. Meyer at Zinssers.

Sept 4 Went out with Cheer up and worked morning in laboratory. Sept 5 Worked morning in laboratory ^and on automobile^ In the afternoon went out with Celine in "Cheer up" beyond Tarrytown Light house. Came back at ~~6~~ 7:15 P.M. in the dark.

[[end page]]

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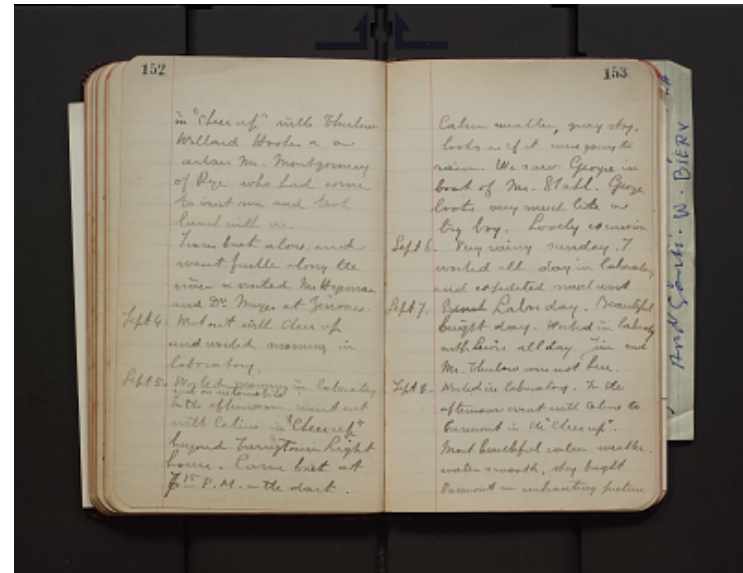
Calm weather, gray sky. looks as if it were going to rain. We saw George in boat of Mr. Stahl. George looks very much like a big boy. Lovely excursion

Sept 6. Very rainy Sunday. I worked all day in laboratory and expedited much work.

Sept 7. ~~Beaut~~ Labor day. Beautiful bright day. Worked in laboratory with Lewis all day. Jim and Mr. Thurlow were not here.

Sept 8. Worked in laboratory. In the afternoon went with Celine to Piermont in the "Cheer up". Most beautiful calm weather, water smooth, sky bright Piermont an enchanting picture

[[end page]]



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Took supper in Fort Confort Inn seated next to window. rising moon, light effect in the water - Unusually large moon. Seems like face of a man. ~~Echo?~~ Like a stage effect. Twinkling light on other shore of Tappan Zee. White yacht at anchor - Paddling canoes passing. Motor was passing on road below terrace. Buggy with singing people. Everything contributes to make charming picture. Left at night in bright moon light. Celine at helm reminds me of our earlier wooing - Loves dream beautiful quiet night. Came back to Club house

[[end page]]

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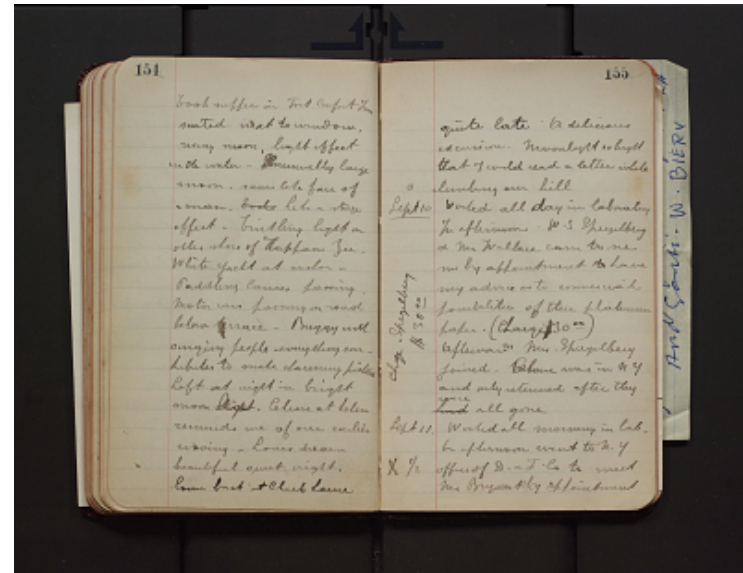
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quite late. A delicious excursion. Moonlight so bright that I could send a letter while climbing our hill.

Sept 10 Worked all day in laboratory. In afternoon W.S. Speigelberg & Mr. Wallace came to see me by appointment to have my advice as to commercial possibilities of their platinum papers. (Charge \$30.00)

Afterwards Mrs. Speigelberg joined. Celine was in N.Y. and only returned after they had been all gone.

Sept 11. Worked all morning in lab. In afternoon went to N.Y. office of D. & F. Co to meet Mr. Bryant by appointment



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met. E. H. Hooker and had further consultations with him & Hilton.

[[margin]] Sept 12. [[/margin]] Worked all morning in lab. and also on automobile. In afternoon took George, Nina & Florence Kelman to Piermont. Make carnival there [[Canoeing?]] in canoes. etc. Came home after dark, quiet night, moon light calm weather. Children seemed much pleased.

[[margin]] Sept 13. [[/margin]] Worked all morning in lab. and on auto. In the afternoon went to Van Cortlandt, fetch Dr. Seaman and Mrs. Seaman (Washington) they stayed with us for supper. Dr. Seaman's a

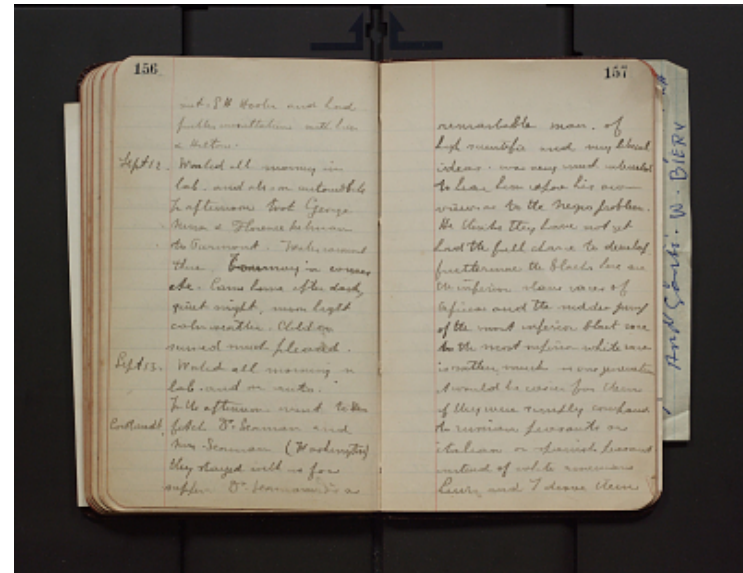
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remarkable man. of high scientific and very liberal ideas. was very much interested to hear him expose his own views as to the Negro problem. He thinks they have not yet had the full chance to develop. furthermore the blacks here are the inferior slave races of Africa and the sudden jump of the most inferior black race to the most superior white race is rather much in one generation it would be easier for them if they were simply compared to russian peasants or italian or spanish peasants instead of white americans Lewis and I drove them

[[end page]]



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back to N.Y. to their hotel My car ran better than it ever did before. since I mended the shifter of the timer and the gear box. It is ^now again^ a real pleasure to drive this car.

Sept. 14 The school for the children begins again. They seem both eager to commence well. Good bye boats yacht club Hudson river and careless days! George speaks of ~~the~~? ~~the~~ hauling the Mermaid out of the water!

I worked in lab and spent some time in further adjusting my car.

Sept 15. Worked in laboratory all morning. After lunch took

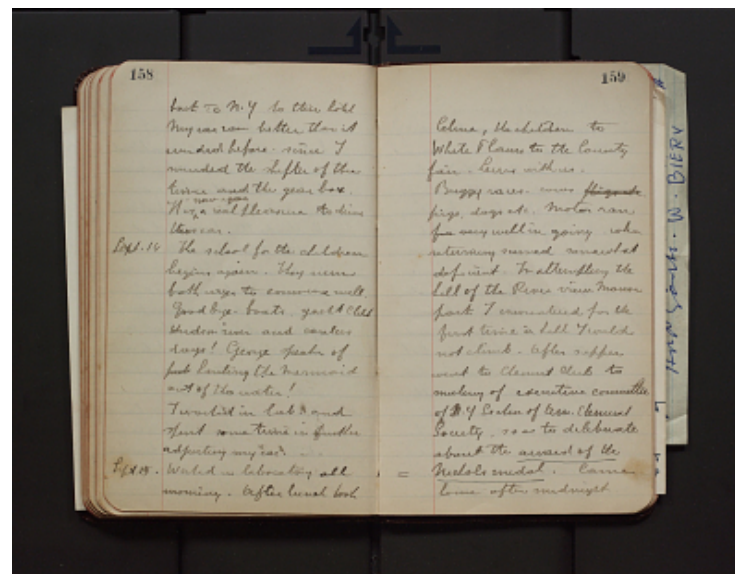
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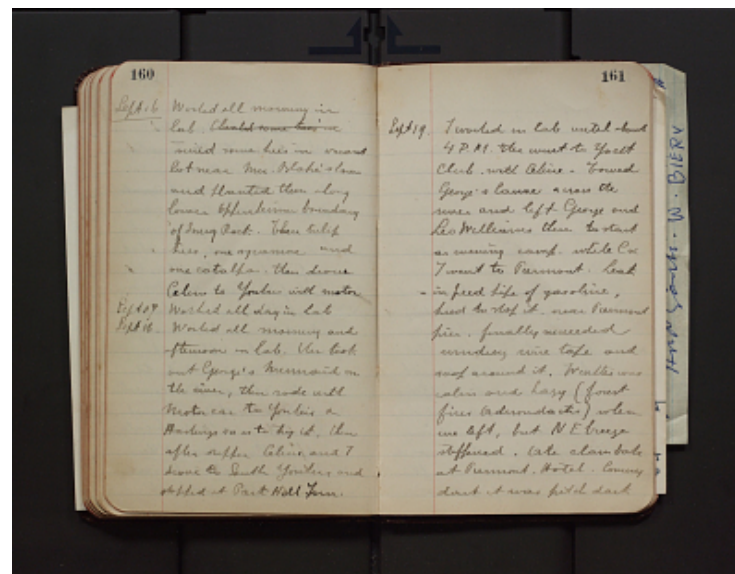
Celine, the children to White Plains to the County fair. Lewis with us. Buggy races. cows ~~pligs~~ etc.? ~~pigs~~, dogs etc. Motor ran ~~fn?~~ very well in going when returning seemed somewhat deficient. In attempting the hill of the River view Manor parts I encountered for the first time a hill I could not climb. After supper went to Chemist Club to meeting of executive committee of N.Y. Section of Am. Chemical Society, so as to deliberate about the award of the Nichols medal. Came home after midnight

[[end page]]



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 Sept 16 Worked all morning in lab. ~~Climbed some trees in~~ Found some trees in vacant lot near Mr. Blake's house and planted them along lower Oppenheimer boundary of Snug Rock. Three tulip trees, one sycamore and one catalpa. then drove Celine to Yonkers with motor
 Sept 17 Worked all day in lab
 Sept 18 Worked all morning and afternoon in lab. Then took out George's Mermaid on the river, then rode with motor car to Yonkers & Hastings so as to try it, then after supper Celine and I drove to South Yonkers and stopped at Park Hall Inn
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 Sept 19 I worked in lab until about 4 P.M. then went to Yacht Club with Celine. Towed George's canoe across the river and left George and Leo Williams there to start an evening camp while C & I went to Piermont. Leak in feed line of gasoline, tried to stop it. near Piermont pier. finally succeeded winding wire tape and soap around it. Weather was calm and hazy (forest fires Adirondacks) when we left, but N.E. breeze stiffened. Ate clam bake at Piermont Hotel. Coming back it was pitch dark



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very strong wind. heavy waves, were tossed up and down. Souwester and oilskin necessary finally came near eastern shore where it was calmer. From now on wind behind and no further trouble except darkness.

Foun(d)~~George~~ the boys camp fire, other people camping near by. George had a hole in his canoe which he had patched up with gum from a tree. George was hoarse and had a sore throat seemed in very disgruntled mood. Arrived at home after nine. lots of excitement

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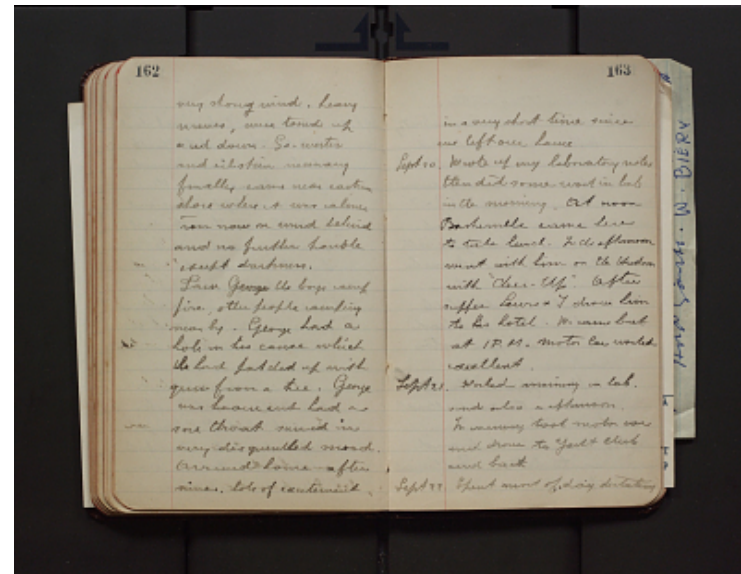
in a very short time since we left our house

Sept 20 Wrote up my laboratory notes then did some work in lab in the morning. At noon Baskerville came here to take lunch. In the afternoon went with him on the Hudson with "Cheer-Up". After supper Lewis and I drove him to his hotel. We came back at 1 P.M. Motor car worked excellent.

Sept 21. Worked morning in lab and also afternoon. In evening took motor car and drove to Yacht Club and back

Sept 22 Spent most of day dictating

[[end page]]



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[[in margin a drawing of a small circle with dot at center]]
and writing letters.

Sept 23 Worked morning in laboratory ~~[[strikethrough]]~~ afterno
~~[[/strikethrough]]~~ and dictated letters until 1 1/2 P.M. afternoon Lansing
came to consult about D. & F. Co. licenses for paper mills in Rhumford
Falls

[[1/2 x in margin]] Chge 1/2 day. Drove him back to Caryl then went to
Yacht Club (2d cylinder post lead was half off on motor car)

After supper drove Mrs. LeMan to van Cortlandt with Celine

Sept 24 Worked in lab and wrote letters. Explained to

[[end page]]

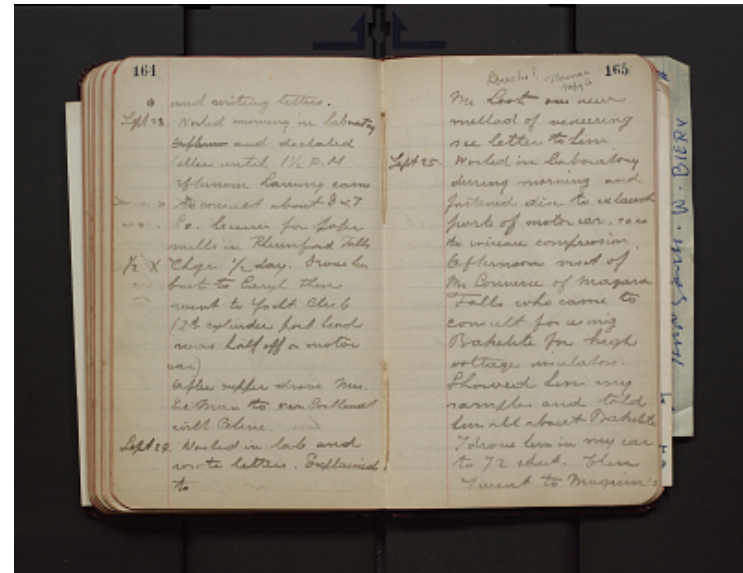
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Mr. Look ^Louchs? Florence Mfg C.^ our new method of veneering see
letter to him.

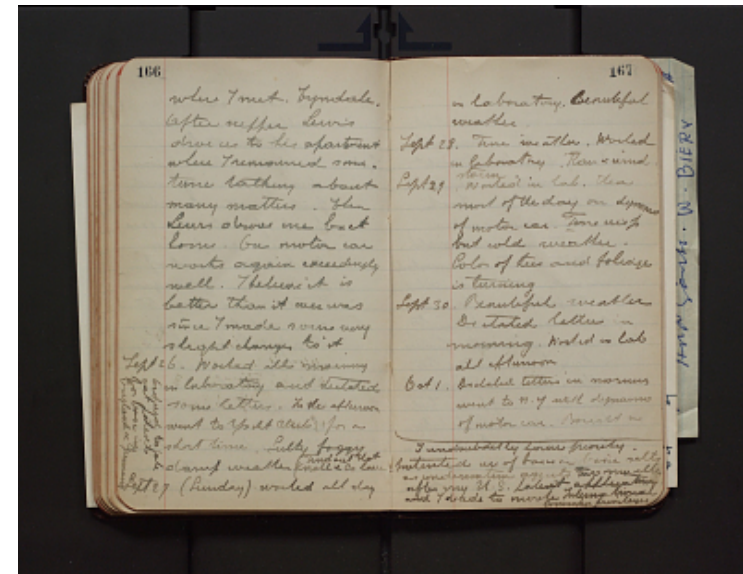
Sept. 25. Work in laboratory during morning and fastened disc to
exhaust ports of motor car. so as to increase compression. Afternoon
visit of Mr. Converse of Niagara Falls who came to consult for using
Bakelite for high voltage insulations. Showed him my samples and told
him all about Bakelite. I drove him in my car to 72 Street. Then I went
to Mouquin's

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where I met Tyndale. After supper Lewis drove us to his apartment where I remained some time talking about many matters. Then Lewis drove me back home. Gas motor car works again exceedingly well. I believe it is better than it ever was since I made some very slight changes to it
 Sept 26. Worked all morning in laboratory and dictated some letters. In the afternoon went to Yacht Club for a short time. Sultry foggy damp weather (Tried out that Knoll & Co House
 Sept 27 (Sunday) worked all day
 Decided to take out patents for base in England & Germany
 Sept 28. Fine weather. Worked in laboratory. Rain & wind. storm
 Sept 29 Worked in lab. Then most of the day on dynamo of motor car. Fine mist but cold weather. Color of trees and foliage is turning
 Sept 30. Beautiful weather Dictated letters in morning. Worked in lab all afternoon
 Oct 1. Dictated letters in morning went to N.Y with dynamo of motor car. Bought a
 I undoubtedly have priority. Intended use of bases on basic salts as condensation agents two months after my U.S. patent application and I decide to invoke international privileges
 Oct 2 (Sunday) worked all day



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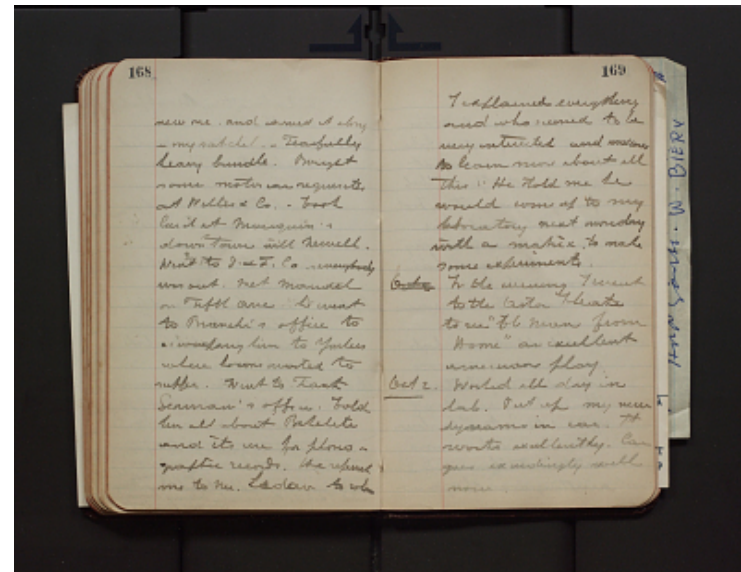
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new one. and carried it along in my satchel. Fearfully heavy bundle.
Bought some motor car requisites at Willis & Co. Took lunch at
Mouquin's downtown with Newell. Went to D. & F. Co. everybody was
out. Met Mandel on Fifth Ave. He went to Branchi's office to accompany
him to Yonkers where he was invited to supper. Went to Frank
Seaman's office. Told him all about Bakelite and its use for
phonographic records. He referred me to Mr. Ledow to whom

[[end page]]
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I explained everything and who seemed to be very interested and
anxious to learn more about all this. He told me he would come up to my
laboratory next Monday with a matrix to make some experiments.

~~Oct 2~~
In the evening I went to the Astor Theatre to see "The Man from Home"
an excellent american play.

Oct 2. Worked all day in lab. Put up my new
dynamo in car. It works excellently. Car goes exceedingly well now
[[end page]]



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 worked on grindstones and impregnated fibre Toward evening went with car to Yacht Club for a few minutes. Took Mr Lloyd up here and showed him my lab. then drove him home; the kids and Bernard Turin were in my car.

Oct 3. Worked all day in lab excepting in morning while dictating letters. Showed my results of grindstones to Thurlow who like usual seems rather stubborn in accepting something new

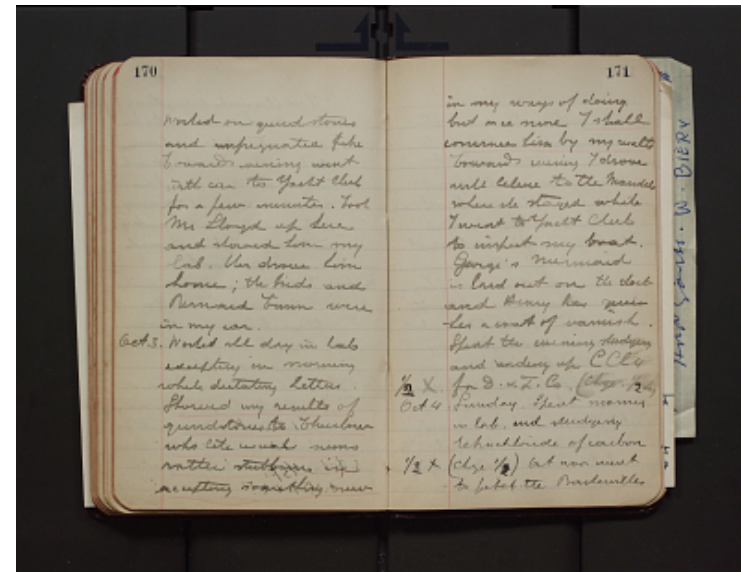
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 in my ways of doing but once more I shall convince him by my results Towards evening I drove with Celine to the Mandels where he stayed while I went to Yacht Club to inspect my boat. George's Mermaid is laid out on the dock and Henry has given her a coat of varnish. Spent the evening studying and writing up CCI

$\frac{1}{2}$ X for D. & F. Co. (chge. $\frac{1}{2}$ day)

Oct 4. Sunday. Spent morning in lab. and studying tetrachloride of carbon

$\frac{1}{2}$ X

(chge $\frac{1}{2}$) at noon went to fetch the Barkervilles



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with the motor car. After lunch went out with the "Cheer Up" to Piermont and came back towards evening. Beautiful calm weather. Moonlight. Children had remained at Snug Rock " with ours.

Government boat stopping all launches and yachts on river to inspect them but we managed to get away along Palisades.

At 8 P.M. drove the Baskervilles back home.

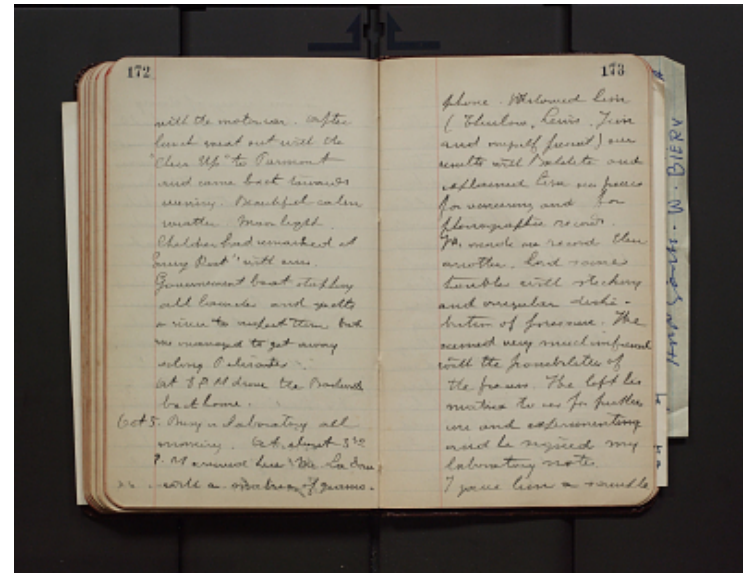
[[margin]] Oct 5. [[/margin]] Busy in laboratory all morning. At about 3:30 P.M. arrived here Mr La Dow with a matrix of gramo-

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phone. We showed him (Thurlow, Lewis, Jim and myself present) our results with Bakelite and explained him our process for veneering and for phonographic records. He made one record then another. Had some trouble with sticking and irregular distribution of pressure. He seemed very much impressed with the possibilities of the process. He left his matrix to us for further use and experimenting and he signed my laboratory notes. I gave him a sample



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of Bakelite and afterwards drove him to 72 st. Subway Station with Lewis. I told him that we would submit him further and better samples of our work in a few days.

[[margin]] Oct 6. [[/margin]] Went to New York early first to D & F. Co office where Mr. E. Hooker ~~[[/del]]~~ made me a very flattering discourse telling me he wanted to find some way to make some less lose connection with his enterprises that he desired much my innovation in his work etc.

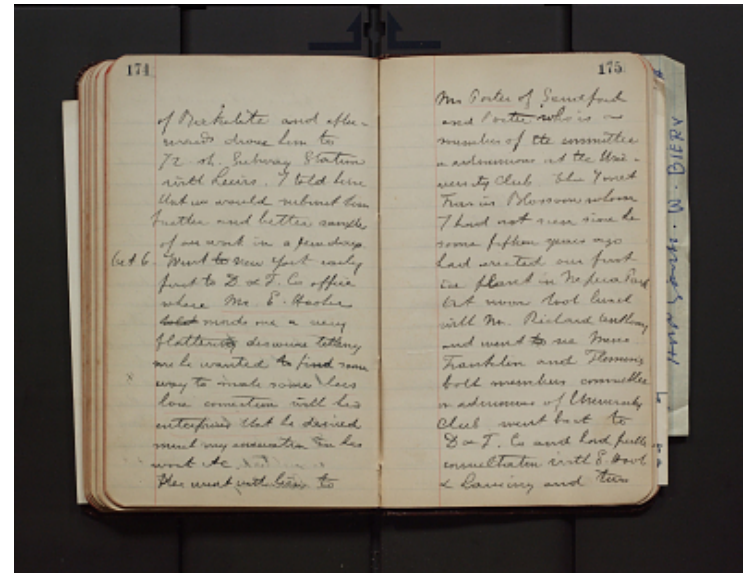
Then went with him to

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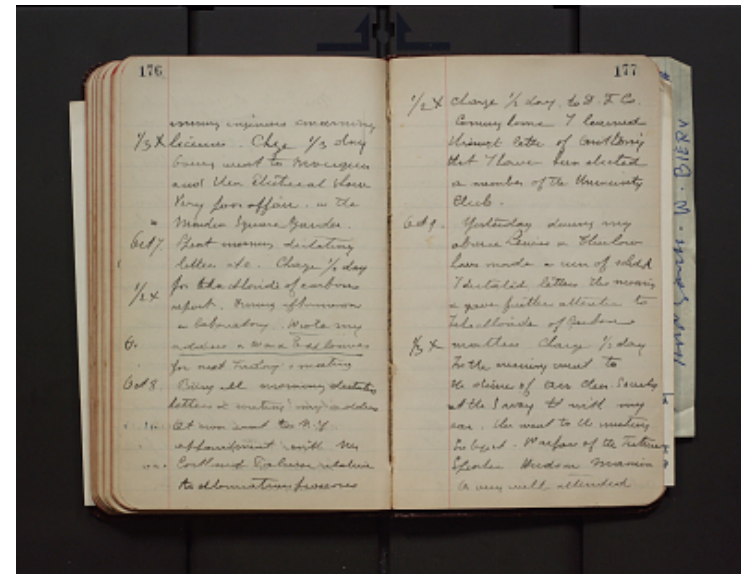
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Mr. Porter of Sandford and Porter who is a member of the committee on admissions at the University Club. Then I met Francis Blossom whom I had not seen since he some fifteen years ago had erected our first ice plant in Nepera Park. At noon took lunch with Mr. Richard Anthony and went to see Messrs. Franklin and Fleming both members committee on admissions of University Club. went back to D & F. Co and had further consultation with E. Hooker & Lansing and two



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 mining engineers concerning licenses.
 1/3 X
 Chge 1/3 day Evening went to Mouquin and then Electrical show Very poor affair in the Madison Square Garden.
 =
 Oct 7. Spent morning dictating letters etc. Charge 1/2 day
 1/2 X
 for tetrachloride of carbon report. During afternoon in laboratory.
Wrote my address on War & Explosives
 O
 for next Friday's meeting.
 Oct. 8 Busy all morning dictating letters and writing my address. At noon went to N.Y. appointment with Mr. Cortland Palmer relative to chlorination processes
 [start page]
 177
 1/2 X
 Charge 1/2 day to D. F. Co.
 Coming home I learned through letter of Anthony that I have been elected a member of the University Club.
 Oct 9. Yesterday during my absence Lewis & Thurlow have made a run of solid A. I dictated letters this morning & gave further attention to tetrachloride of carbon matters.
 1/3 X
 Charge 1/3 day In the evening went to the dinner of Am Chem. Society at the Savoy H with my car. Then went to the meeting Subject. Warfare of the Future. Speaker Hudson Maxim.
 A very well attended



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meeting. A record meeting says our secretary. As Chairman I introduced the subject by a speech against war and the uses of explosives in the arts of peace. This acted as a detonating cap to Maxim who started using brilliant rhetoric defending war etc. and gave us a very interesting and very well delivered lecture. After meeting I drove Evans and Rebman first to Lotus Club then to Kingsbridge and I arrived home after mid night. Beautiful moon light.

Oct. 10 Worked in lab and was

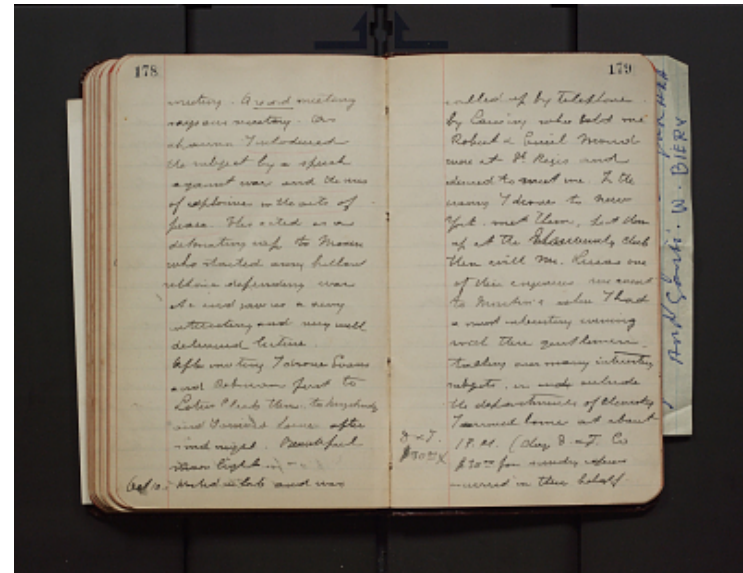
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called up by telephone by Lansing who told me Robert and Emil Mond were at St. Regis and desired to meet me. In the evening I drove to New York. met them, put them up at the University Club then with Mr. Lucas one of their engineers we went to Martin's where I had a most interesting evening with these gentlemen, talking over many interesting subjects. in and outside the departments of Chemistry. I arrived home at about 1 P.M. (Chrg D. & F. Co \$30.00 for [D. & F. \$30.00 X written in margin] sundry expenses incurred in their behalf.

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Oct 11. Worked all morning in lab. In the afternoon late drove out with the children to Dobb's Ferry to see the Villard place and the new River View Manor settlement then called at the [[Jensens?]] where I remained about one hour. Their boy was on crutches - sprained ankle in foot ball game.

Oct 12. Worked in lab. and waited most of day to hear from E. H. Hooker to take Robert Mond to Zoological Garden but we located Mond too late.

Oct 13. Drove ~~early~~ in the morning to Zoological Garden

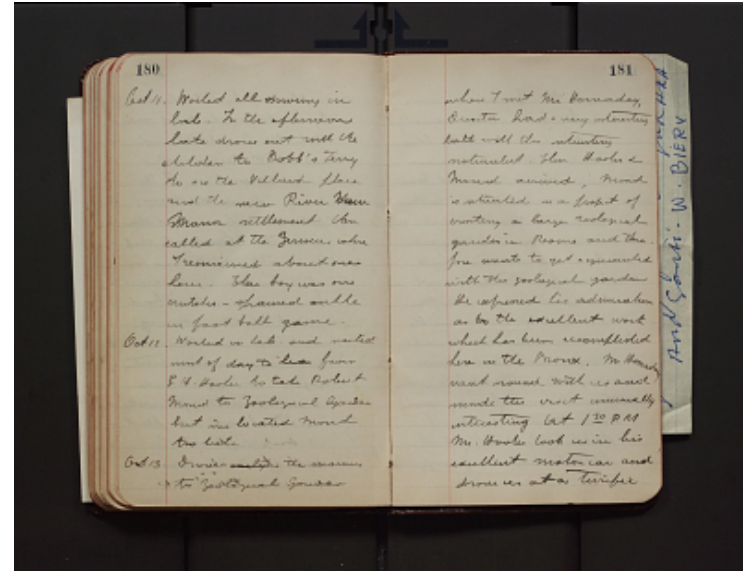
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where I met Mr. Hornaday, Director had a very interesting talk with this interesting naturalist. Then Hooker & Mond arrived, Mond is interested in a project of creating a large zoological garden in Rome and therefore wants to get acquainted with this zoological garden. He expressed his admiration as to the excellent work which has been accomplished here in the Bronx. Mr. Hornaday went around with us and made this visit unusually interesting. At 1:30 P.M. Mr. Hooker took us in his excellent motor car and drove us at a terrific

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rate to Greenwich Conn. to his house. An unusually tastefully and pretty place. Took lunch there then drove across to Albany Post Road then to New York to the University Club. Barely in time for Rob. Mond to catch the train to Niagara Falls. Took supper at Club with Mr. Hooker & Mr. Sprague the well known electrical engineer. Conversation drifted on Bakelite and Mr. Sprague showing unusual interest in the matter. I told him all about it, he took along one of my

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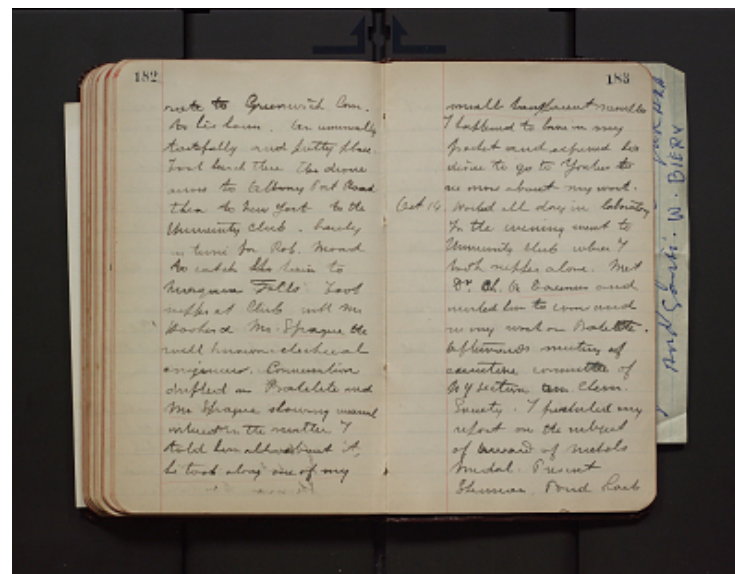
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small transparent samples I happened to have in my pocket and expressed his desire to go to Yonkers to see more about my work.

Oct. 14 Worked all day in laboratory. In the evening went to University Club where I took supper alone. Met Dr. Ch. A. Doremus and invited him to come and see my work on Bakelite. Afterwards meeting of executive committee of N.Y. Section Am. Chem. Society. I presented my report on the subject of Award of Nichols Medal. Present Sherman, Pond, Loeb

[[end page]]



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Lamb, Joyce, and myself. My recommendations were unanimously adopted and medal will be awarded to Meyer & Webbe joint authors of the prize-paper. Atomic weight of chlorine At the end of meeting Mr. Penbody of the Lovering Co. Mfr. of insulating materials came to see me. He had been to Yonkers and followed me to New York and was very anxious to hear about Bakelite. I told him what he wanted and invited him tomorrow to my laboratory to show him samples and use of Bakelite.

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Oct 15.

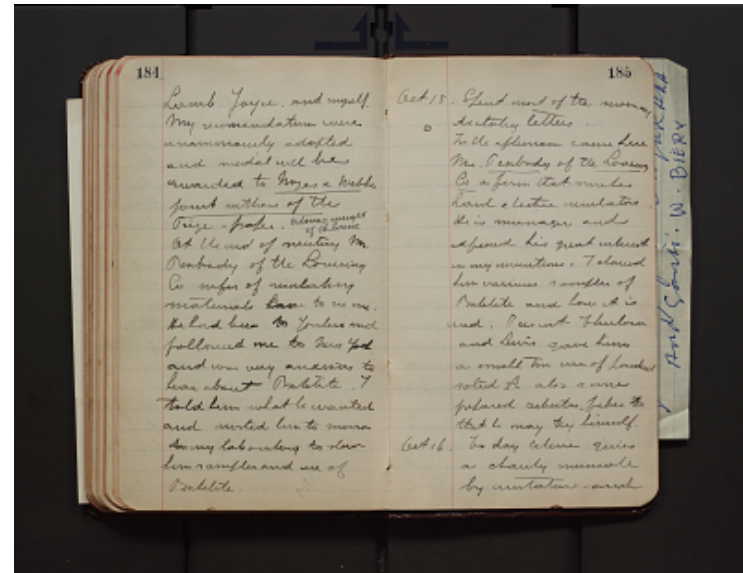
Spent most of the morning dictating letters.

symbol - circle with dot in center

In the afternoon came here Mr. Penbody of the Lovering Co a firm that makes hard electric insulators. He is manager and explained his great interest in my inventions. I showed him various samples of Bakelite and how it is used. Present Thurlow and Lewis gave him a small tin can of powdered solid A also some prepared asbestos fiber so that he make try himself.

Oct 16.

Today Celine gives a charity musicale by invitation. and



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I am requested to get out to New York. I spend morning dictating letters and wrote to a certain Mr. Moritz Mayer manufacturer of cutlery who is brother in law of Nina Toch. See letter explaining about Bakelite ...

[[= sign in margin]] University Club in evening.

Oct 17. Worked in lab.

Oct 18. Ditto

Oct 19. Ditto. Visit of R. W. Seabury who brought me some more samples. Told me his troubles of raising most money for his company. Drove him to N.Y. in afternoon. Tire burst at Riverside Drive. Walked to 72nd St. There met Max Toch, drove him back

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Showed him my further samples of wood finishing. He stayed over night.

Oct 20. Next day drove him alone to New York through van Cortlandt Park. Bought new tire & Stepney spare wheel

and other auto sundries. Came back at noon. Beautiful weather.

[[written vertically in margin]] First demountable rims I used [[/margin]]

Oct 21. Work in lab.

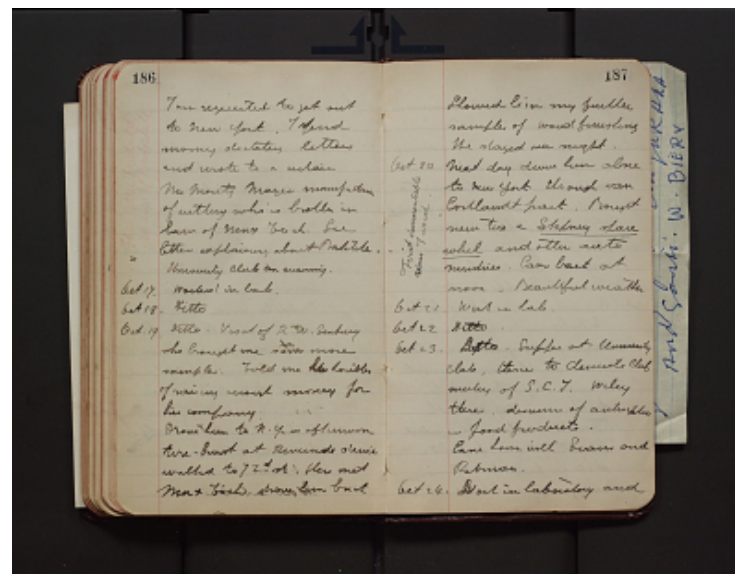
Oct 22. Ditto

Oct 23. Ditto. Supper at University Club, then to Chemists Club meeting of S.C.I. Wiley there. Discussion of antiseptics in food products.

Came home with Evans and Rebman.

Oct 24. Work in laboratory and

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renewing bearings of transmission in automobile.
[[margin]] Oct. 25 [[/margin]] Sunday. Worked all morning in lab. Afternoon drove out with Celine and children to Pelham Park athletic grounds. Perrywinkles! Drive first through Mosholu and van Cortlandt Park. Stopped at Mandels. Told the latter Neubergers catalytic action analyzing organic substances in sunlight would work probably also with bichromate or with ferric salts. Suggested also that we try CO₂ + H₂O in presence of inorganic enzymes, colloid metals

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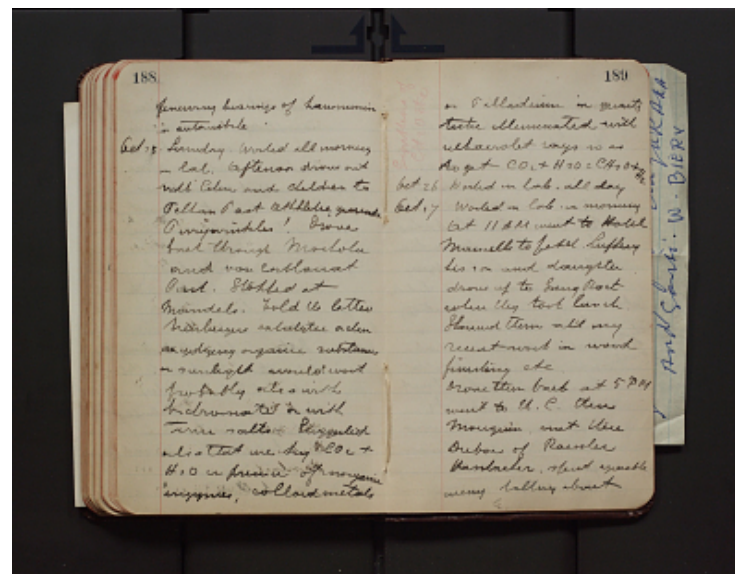
[[preprinted]] 189 [[/preprinted]]
or Palladium in quartz tube illuminated with ultraviolet rays so as to get CO₂ + H₂O = CH₂O + H₂

[[margin]] synthesis of CH₂O etc [[/margin]]

[[margin]] Oct 26 [[/margin]] Worked in lab. all day

[[margin]] Oct 27 [[/margin]] Worked in lab. in morning. At 11 AM went to Hotel Marcelle to fetch Lufbery his son and daughter drove up to Snug Rock where they took lunch. Showed them all my recent work in wood finishing etc.

Drove them back at 5 P.M. went to U.C. then Mouquin. met there Dubois of Roessler Hasslacher. Spent agreeable evening talking about



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many subject. He tells me formaldehyde prices have to be raised 1/2 c per pound on account of increased price of wood alcohol. Went with him to Deutschler Club where he lives then drove home. Slippery and skidding road and fog in stretches

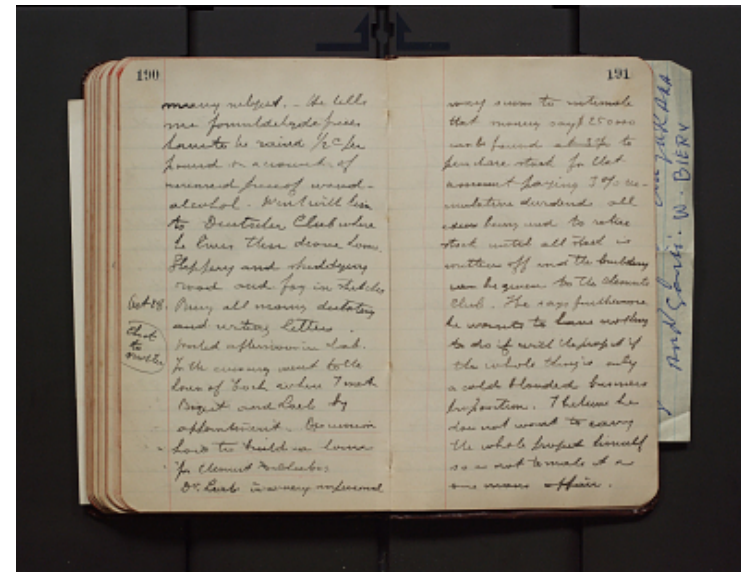
Oct 18. Busy all morning dictating and writing letters.

Check to Mother
Worked afternoon in the lab. In the evening went to the house of Toch where I met Bogart and Loeb by appointment. Discussion how to build a home for Chemist Club. Dr. Loeb in a very impersonal

end page]]

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way seems to intimate that money say \$250000 can be found ~~at 3%~~ to purchase stock for that amount paying 3% cumulative dividends all excess being used to retire stock until all stock is written off and the building can be given to the Chemists Club. He says furthermore he wants to have nothing to do with the project if the whole thing is only a cold blooded business proposition. I believe he does not want to carry the whole project himself so as not to make it a one mans affair.



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If he succeeds in carrying out his project he will render a lasting great service to the chemical profession. Came home after midnight.

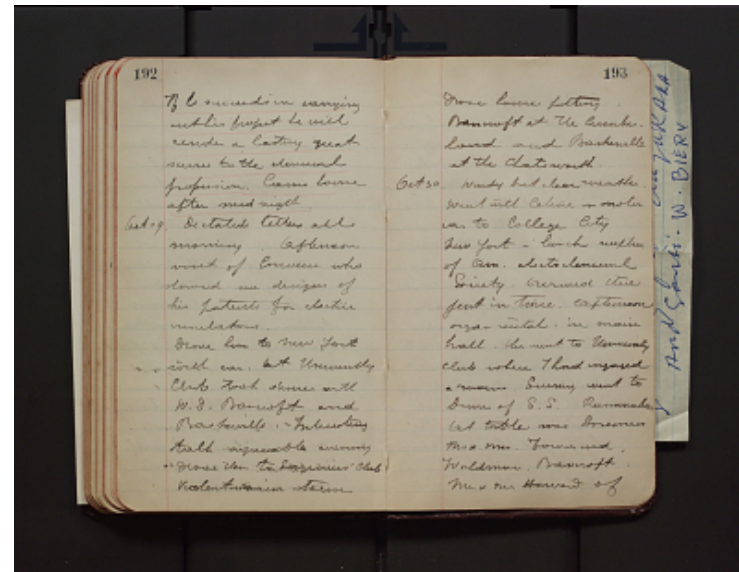
Oct 29. Dictated letters all morning. Afternoon visit of Converse who showed me designs of his patents for electric insulators. Drove him to New York with car. At University Club took dinner with W. D. Bancroft and Baskerville. Interesting talk agreeable evening Drove then to Engineers' Club

Violent rain storm

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Drove home putting Bancroft at the Cumberland and Baskerville at the Chatsworth.

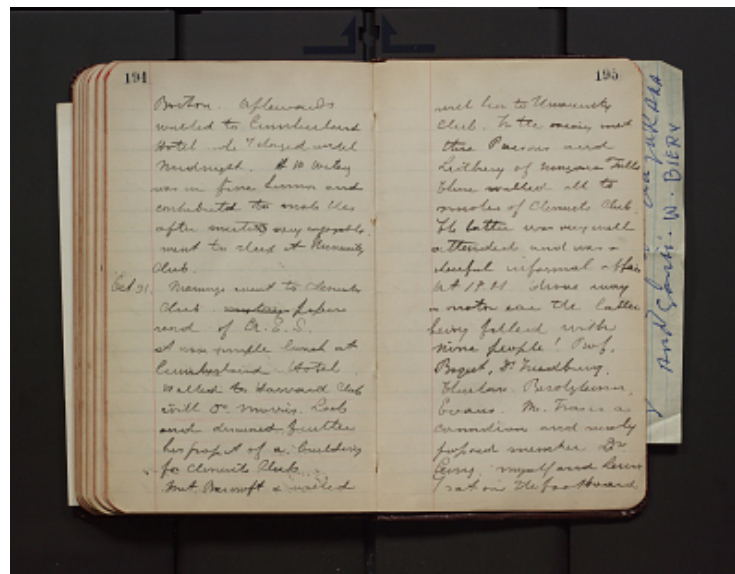
Oct 30. Windy but clear weather. Went with Celine in motor car to College City New York - lunch reception of Am. electrochemical Society. Arrived there just in time. Afternoon organ recital in main hall, then went to University Club where I had engaged a room. Evening went to dinner of E. S. At table was Doremus Mr & Mrs. Townsend, Waldman. Bancroft, Mr & Mrs Howard of



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 Boston. Afterwards walked to Cumberland Hotel where I stayed until midnight. A W Wiley was in fine humor and contributed to make the after meeting very enjoyable. went to sleep at University Club.
 Oct 31. Morning went to Chemists Club.
~~meeting~~ papers read of A. E. S. at noon simple lunch at Cumberland Hotel. Walked to Harvard Club with Dr. Morris Loeb and discussed further his project of a building for Chemists club.
 Met Barcroft & walked
 end page
 start page
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with him to University Club. In the evening met there Parsons and Ludbury of Niagara Falls Thence walked all to smoker of Chemists Club. The latter was very well attended and was a cheerful informal affair At 1 P.M. drove away in motor car the latter being filled with nine people! Prof. Boquet, Dr. Friedburg, Thurlase, Berolzheimer, Evans. Mr. Traier a Canadian and newly proposed member. Dr. Cury, myself and Lewis I sat on the footboard



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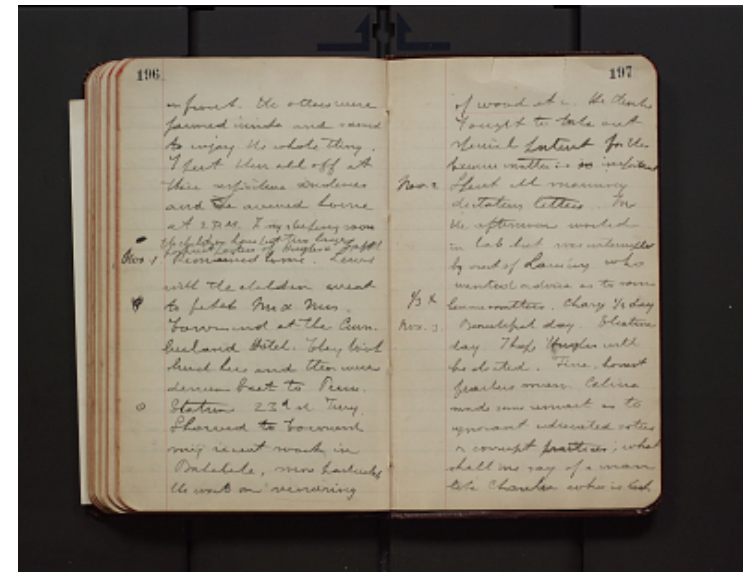
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in front. The others were jammed inside and seemed to enjoy the whole thing. I put them all off at their respective residences and I arrived home at 2 P.M. In my sleeping room the children have put two large portrait posters of Hughes & Taft!

Nov. 1 Remained home. Lewis with the children went to fetch Mr. & Mrs. Townsend at the Cumberland Hotel. They took lunch here and then were driven back to Penn. Station 23rd St. Ferry

Nov. 2 Spent all morning dictating letters. In the afternoon worked in lab but was interrupted by visit of Lansing who wanted advice as to some license matters. Charge 1/3 day

Nov. 3 Beautiful day. Election day. I hope Hughes will be elected. Fine, honest fearless man. Celine made some remark as to ignorant uneducated voters or corrupt practices; what shall one say of a man like Charles who is rich



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belongs to an old known family that has been here for many generations, has had all advantages of a fine education and yet has so little self respect as to put himself against a man like Hughes, misrepresenting and willfully misleading prospective voters and all this because he is bribed by a bribe stronger than money: intense selfishness and vanity

I do not care so much whether Taft or Bryan is elected, both I believe to be honest able men who are worthy antagonists

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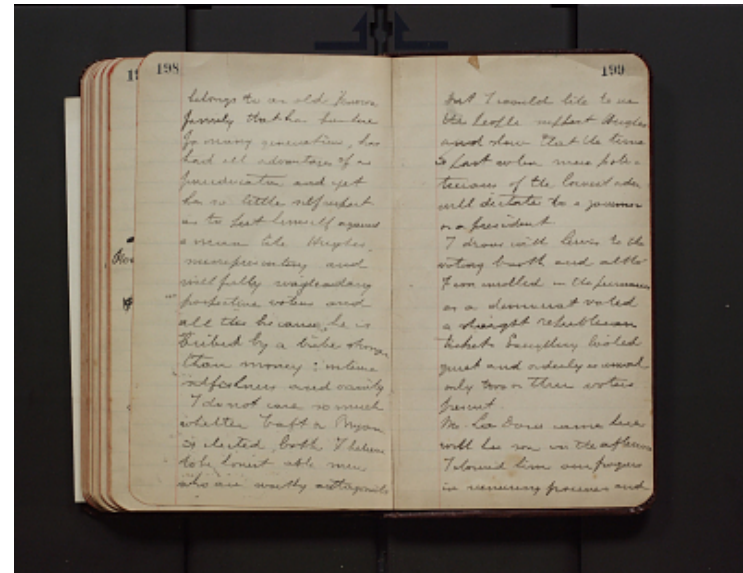
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but I would like to see the people support Hughes and show that the time is past when mere politicians of the lowest order will dictate to a governor or a president.

I drove with Lewis to the voting booth and altho I am enrolled in the primaries as a democrat voted a straight republican ticket. Everything looked quiet and orderly as usual only two or three voters present.

Mr. La Dow came here with his son in the afternoon I showed him our progress in veneering process and

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showed him also first results of our attempts to make phonographic records.

In the evening after supper Celine Nina George and myself drove in the car to Yonkers. Deafening noise, rattles trumpets etc. like pandemonium! Will [[Andrews?]] and his wife were there also with their car. Children seemed to enjoy the deafening fun I did not. Came back home before results were known

Novemb 4. Overwhelming victory for Taft and Hughes. George came in my room early with the newspaper

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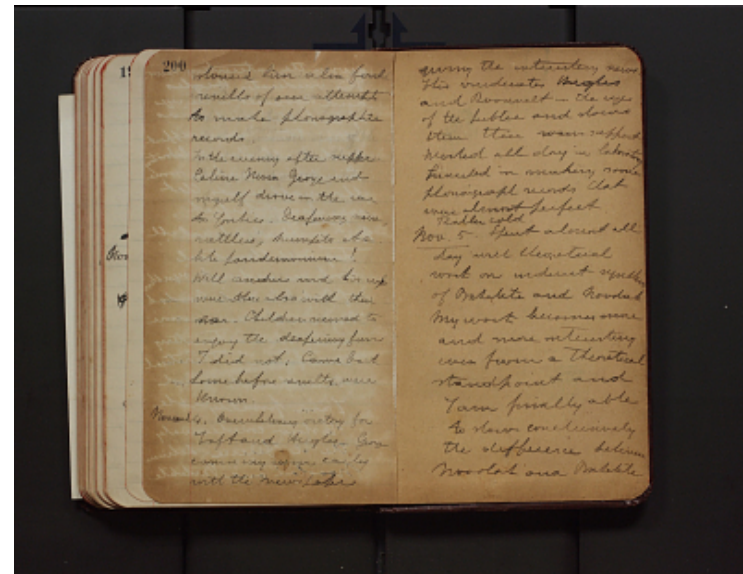
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giving the interesting news. This vindicates Hughes and Roosevelt in the eyes of the public and shows them their warm support Worked all day in laboratory Succeeded in making some phonograph records that were almost perfect. Rather cold.

[[underlined]]Nov. 5. [[/underlined]] Spent almost all day with theoretical work on indirect synthesis of Bakelite and Novolak

My work becomes more and more interesting even from a theoretical standpoint and I am finally able to show conclusively the difference between Novolak and Bakelite

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from a theoretical standpoint and to outline their chemical constitutions
To night I am going with Celine to Dr. Loeb's house for supper.
From there we drove to Carnegie Hall to hear Boston Symphony
Orchestra I cannot settle my mind on music. I am
too much absorbed by my work to which my thoughts are ever reverting.
We drove home in

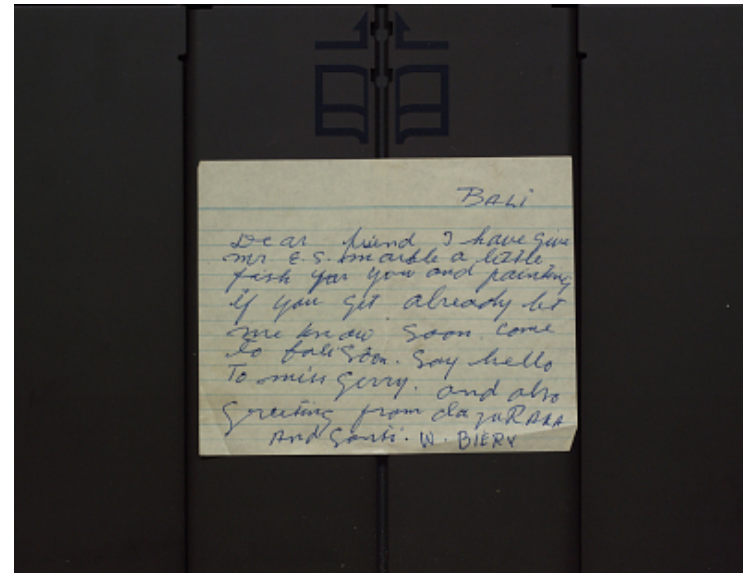
fifty minutes. A clear
but cold night but
our Limousine
felt very comfortable. - What possibilities has automotoring created!
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BALi

Dear friend I have give Mr E.S. Marble a little fish for you and painting if you get already let me know soon. come to bali soon. Say hello to Miss Gerry and also greetings from dala RAKA and [[Santi?]]. W. BIERY



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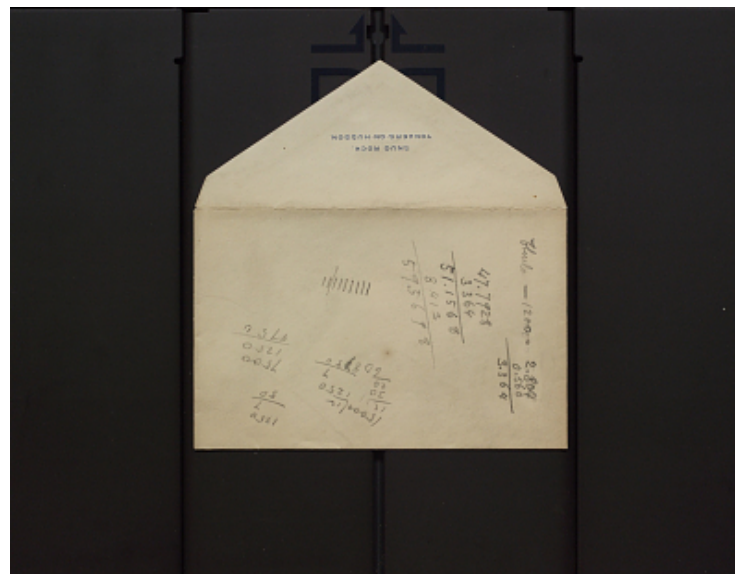
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