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Charles Proteus Steinmetz Collection

Letter Book 5 – December 1910 to January 1911

Page	Date	Description
1-8	1 Dec 1910	Memorandum Lightning Arrestor Complaints- 1909-1910. On every installation listed, installation was damaged by puncturing of cones, as many as 900.
9	1 Dec 1910	C.P. Steinmetz to W.W. Conklin, Syracuse. Unable to take part in banquet.
10-11	1 Dec 1910	C.P. Steinmetz to C.A. Richmond, President, Union College. C.P. Steinmetz asks permission to supervise a Ph.D. program for W.A. Garrison, Assistant Prof. Engineering Mathematics and a Harvard graduate.
12	1 Dec 1910	C.P. Steinmetz to Wm. Stoffregn, NY City. Send what fish you can. (See below).
13	1 Dec 1910	Wm. Stoffregn, NY City to C.P. Steinmetz. Can only fill part of order for aquarium fish.
14	2 Dec 1910	N.R. Birge, GE, to C.P. Steinmetz. Improvement in magnetite lamp due to use of sandblasted globes and reactances.
15	2 Dec 1910	E.E.F. Creighton to L.E. Barringer, GE. Experiments on alundum and carborundum rods
16	2 Dec 1910	J.L.R. Hayden to J.J. Frank, GE Pittsfield. Tests of disruptive strength of Bakelite.
17	2 Dec 1910	C.P. Steinmetz to W.R. Whitney, GE. Intermittent life tests of tungsten lamp show only 275 hours vs. 411 hours for conventional test. this appears "extremely important."
18-19	2 Dec 1910	John B. Taylor, GE, to W.S. Moody, GE Pittsfield. Compensator for use with 15,000 KW. Turbo Generator. Boston Elevated Railway Co.
20	3 Dec 1910	E.R. Berg, GE, to J.L.R. Hayden. Company used for carbon determinations.
21	3 Dec 1910	J.L.R. Hayden to G.N. Chamberlin, GE Lynn. Improvements to magnetite lamps.
22	5 Dec 1910	H.S. May, General Bakelite Co, New York, to J.L.R. Hayden. Enclosed is copy of Bakelite Information No. 1.
23	5 Dec 1910	R.B. Owens, Franklin Institute, Philadelphia, to C.P. Steinmetz. Invitation to dinner honoring Edward Weston. Steinmetz shorthand.
24	5 Dec 1910	W.R. Whitney, GE, to C.P. Steinmetz. Talked with Dr. Langmuir about

		Mr. Beechlyn's scheme [see Book 4] for reflecting infrared light back onto filament to save energy. Did not seem unreasonable, but appears impractical. "We may possibly think of starting an experiment along this line.
25-26	6 Dec 1910	C.P. Steinmetz to A.G. Davis, GE Patent Dept. Patent Application – F.G. Baum for cooling of electric generators. An idea already often discussed that does not appear patentable, though a useful idea.
27-29	6 Dec 1910	A.S. Langdorf, Chairman, Educational Committee, AIEE, to Committee. Desirability to providing AIEE prizes to electrical engineering students.
30	6 Dec 1910	Ralph Mershon, NY City to Members of Sub-Committee of Standards Committee. "We had better have a meeting." Steinmetz shorthand.
30a-30b	2 Dec 1910	Charles F. Scott, Pittsburg, PA, to R.D. Mershon, NY City. Standardization of electrical practice in mines.
31-32	7 Dec 1910	C.P. Steinmetz to C.A. Richmond, President Union College. Request that C.P. Steinmetz supervise the Ph.D. program of C.M. Davis, a GE consulting engineer.
33-37	5 Dec 1910	Brochure for the Herrick Balanced Rotary Engine.
39	8 Dec 1910	C.P. Steinmetz to McGraw Hill Book Co. Corrections to "Electrical Engineering Mathematics."
40	8 Dec 1910	C.P. Steinmetz to R.D. Mershon, NY City. Scheduling of Standards meeting.
41	8 Dec 1910	C.P. Steinmetz to B. Owens, Franklin Institute, Philadelphia. Unable to attend Edward Weston Dinner.
42-44	8 Dec 1910	C.P. Steinmetz to E.W. Rice, Jr. High Voltage Testing of Apparatus. Recommends high voltage high frequency testing for all apparatus 6000 volts and over (vs. present practice of high voltage testing at conventional frequencies).
45	8 Dec 1910	C.P. Steinmetz to C.A. Richmond, President, Union College. Request to supervise Ph.D. work of J.A.C. Callan.
46	8 Dec 1910	C.P. Steinmetz to W.D.A. Ryan, Illuminating Engineer, GE. Recommendation for S.A.B. Meakin.
47	8 Dec 1910	C.P. Steinmetz to H.F. Truman, Brooklyn Academy of Music. Will lecture "On the Present Limits of High Voltage Electric Transmission" if date can be arranged.
48	8 Dec 1910	Warren B. Strong, Editor, Harvard Engineering Journal. Request for article.
49	9 Dec 1910	J.L.R. Hayden to A.M. Gifford, GE Pittsfield. Requests meeting on disruptive strength of Bakelite.
50-52	9 Dec 1910	C.P. Steinmetz to A.S. Langsdorf, Washington U., St. Louis. (See 27-29 above). "I am not in favor of the Institute offering prizes for college students." Fears prizes would go for routine work. "I do not consider it is the purpose of the college to train young men to the routine of the ordinary professional work, but if the college has any function at all, it is to give the young men such a knowledge which enables them to

		intelligently deal with questions even if somewhat outside of the everyday routine." "I do not believe there is any justification in the constitution for diverting funds of the Institute to reward commercialism."
53	9 Dec 1910	V to McGraw Hill Book Co. Enclosed is index of "Electrical Engineering Mathematics."
54	10 Dec 1910	H.F. Truman, Brooklyn, to C.P. Steinmetz. Lecture arrangements.
55-55a	10 Dec 1910	George V. Wendell, Dept. Physics, Columbia U., to C.P. Steinmetz. What are the fundamental courses that should be given in all engineering schools?
56	12 Dec 1910	J.L.R. Hayden to Lager & Hurrell, Summit, NJ. Order of orchids
57	12 Dec 1910	C.P. Steinmetz to E.E.F. Creighton. "I wish we could get the AIEE to elect Messrs. Edison, Westinghouse and Blondel as honorary members."
58-59	12 Dec 1910	C.P. Steinmetz to W.C. Fish, GE Lynn. Recommends an appropriation to build motor proposed by Mr. Bergman for use in electric autos. "The motor is a compensated compound motor.... well suited for the Edison battery." Work should be brought to attention of Edison battery company. Claims work on this motor was stated by suggestion made by C.P. Steinmetz to an engineer of the New York Edison Co.
60-61	12 Dec 1910	C.P. Steinmetz to J. Lyons, GE Patent Department. File on arc lamp starting by electrostatic spark. Idea is "interesting, but doubt that it is of much practical value."
62-63	12 Dec 1910	C.P. Steinmetz to McGraw Hill Book Co. Willing to agree to request to change book title from "Electrical Engineering Mathematics" to "Engineering Mathematics."
64	12 Dec 1910	C.P. Steinmetz to Herbert F. Truman, Brooklyn Academy of Music. Lecture arrangements.
65	12 Dec 1910	C.P. Steinmetz to J.H. Warder, Secretary, Western Society of Engineers. Sends corrected manuscript of address.
66-67	13 Dec 1910	E.E.F. Creighton to A.N. Moore, Chairman of Lightning Arrestor Standardizing Committee. Copy to C.P. Steinmetz. Experimental Work on the Cable System of the United Electric Light and Power Co.
68-69	13 Dec 1910	E.E.F. Creighton to A.N. Moore, Chairman, Lightning Arrestor Standardizing Committee. Copy to C.P. Steinmetz. "... there is still further developments to be made in the protection of transmission lines..." Southern Power Co. gives the most difficult conditions, so experimental work should be done there.
70	13 Dec 1910	E.E.F. Creighton to C.T. Mosman, District Engineer, Eastern Office. Copy to C.P. Steinmetz. Aluminum cells for the protection of meters.
71	13 Dec 1910	F.W. Peek, GE, to G. Faccioli, GE Pittsfield. Comments (favorable) on Faccioli paper "Tests of Losses on High Voltage Lines" plus suggestions.
72-72a	13 Dec 1910	D.J.C. Pole, Chief Engineer, Cooper Hewitt Electric Co, Hoboken, NJ, to C.P. Steinmetz. Request for information on C.P. Steinmetz mercury

		vapor lamp invention of 4-5 years ago. C.P. Steinmetz handwritten note to A.G. Davis, GE Patent Dept. "What is your opinion. I am rather in favor of giving some information."
73-74	13 Dec 1910	C.P. Steinmetz to A.B. Hendricks, GE Pittsfield. Comments (favorable) on Hendricks paper "Insulating Materials."
75	13 Dec 1910	C.P. Steinmetz to M.P. Rice, GE. Attached is A.B. Hendricks paper on "Insulating Materials" for approval.
76	14 Dec 1910	W.C. Fish to C.P. Steinmetz. Regarding suggested appropriation for Bergman electric auto motor. See 58-59 above. Fish rode yesterday in E.W. Rice's motor with Edison battery. Performance "enormously influenced and reduced" by temperature conditions [presumably cold]. "... there could be no sense in spending any money on such performance as that experienced yesterday."
77-79	14 Dec 1910	A.M. Hendricks, GE Pittsfield to C.P. Steinmetz. Thanks for comments on his paper and responses.
80	14 Dec 1910	L.J. Hirt, NY City, to C.P. Steinmetz. Request for books for Brazilian EE.
81-81b	14 Dec 1910	C.P. Steinmetz to R.S. Kelsch, Kaministiquia Power Co., Montreal CA. Advisability of installing a 2500 Kw synchronous condenser. C.P. Steinmetz recommends in favor.
82	15 Dec 1910	C.P. Steinmetz to J.A. Capp, GE. Order of thermometer.
82a	15 Dec 1910	Martin P. Rice, GE, to A.H. Moore, GE. Continuous Current versus Direct Current as right term to use.
83	16 Dec 1910	E.E.F. Creighton to L.N. Barringer, GE. Collection of information from Carborundem Co. on processes they use to make material for railway resistance arrester.
84	16 Dec 1910	E.E.F. Creighton to S.H. Blake, GE Pittsfield. Alundum versus carborundum rods. Carborundum appear far superior.
85-88	16 Dec 1910	E.E. F. Creighton to C.E. Eveleth, GE Railway Traction Dept. Report on High Potential DC Aluminum Arrestors. Recommends improvements at some increase in cost.
89-91	16 Dec 1910	Report Lightning Arrester Meeting, Dec 16, 1910. (Steinmetz, Creighton, Hayden and 6 others. "Dr. Steinmetz recommended 50% increase in the spacing of our cones, as he felt that the present arrestors do not have sufficient factor of safety." Also other changes.
92	16 Dec 1910	J.L.R. Hayden to M.R. Wilcox, Binghamton, NY. Payment for speedometer.
93	16 Dec 1910	C.A. Kelsey, GE Motor Dept., to C.P. Steinmetz. Enclosing specifications and diagrams for Kelsey's electric motor for Rosenfeld Carpet Sweeper, seeking C.P. Steinmetz recommendations.
94	16 Dec 1910	Maurice Moscovitz, Moritz & Pincoffs, Hamburg to C.P. Steinmetz. Has placed an order for the 3 cathode ray tubes C.P. Steinmetz requested (see Book 4).
95	16 Dec 1910	Harry H. Harris (?) EE, Cornell to C.P. Steinmetz. Invitation to Cornell Sibley Dinner. Steinmetz shorthand.
96-98	16 Dec 1910	C.P. Steinmetz to E.W. Rice, Jr. Recommends term" auto-transformer

		"replace term "compensator" in GE literature.
99	16 Dec 1910	C.P. Steinmetz to M.P. Rice, GE. See 82a above...."use the name "direct current" as a general name for all unidirectional current."
100-102	16 Dec 1910	C.P. Steinmetz to C.W. Stone, GE. Rating of autotransformers, and use of that name in favor of compensators.
103	17 Dec 1910	J.L.R. Hayden to AB. Hendricks, GE Pittsfield. Telegram. "Dr. Steinmetz will not be here Monday, Dec. 19 th ."
104-106	17 Dec 1910	C.P. Steinmetz to C.W. Stone, GE. Recommendation to make switching of high tension circuits safer by "having all switching done on the low tension side."
107-110	19 Dec 1910	E.E.F. Creighton. Conference with British Aluminum Co. Furnishing of cones for lightning arrestors and surge protectors.
111	19 Dec 1910	Albert G. Davis, GE, to C.P. Steinmetz. See 72-72a above. Recommends against supplying Cooper Hewitt Co. with information on C.P. Steinmetz mercury vapor lamp work." ... they are almost certain to use it in such a way as to do us harm rather than good."
112-113	19 Dec 1910	S.H. Blake, GE Pittsfield, to E.E.F. Creighton. Tests on alundum and carborundum resistance rods.
114	19 Dec 1910	J.L.R. Hayden to L.A. Guay, GE Lynn. Send outer casing for new type titanium carbide lamp.
115	19 Dec 1910	J.L.R. Hayden to K.W. Ignition Co., Cleveland, OH. Send low tension catalogue.
116-117	19 Dec 1910	William S. Hulse, Ge, to C.P. Steinmetz. Bill for cathode ray tubes. See 94 above and book 4.
118	19 Dec 1910	A.H. Moore to M.P. Rice, GE. Suggests that Dr. Steinmetz's decision in favor of direct current over continuous current as term "be taken as final."
119-122	19 Dec 1910	C.P. Steinmetz to A. McK. Gifford, Ge Pittsfield. . Recommends more tests on dielectric strength and electric resistance of Bakelite. Technical details.
123	19 Dec 1910	C.P. Steinmetz to Grand Union Hotel, NY. Telegram. Room reservation.
124	19 Dec 1910	C.P. Steinmetz to C.A. Kelsey, GE Pittsfield. See 93 above. Suggestions for design of carpet sweeper motor.
125	19 Dec 1910	C.P. Steinmetz to George V. Wendell, Columbia U. See 55-55a above. In order of importance, fundamental courses for engineers are "Mathematics, Physics, Chemistry, Philosophy (more particularly logic, and next history of philosophy)... a good general knowledge of English literature, history and natural sciences and possibly at least one other language, is of far more importance and value, for the future success of the engineering student, than instruction in the numerous details of his special profession... strictly technical courses could be very greatly curtailed..... I am a great believer in the educational value of the classic languages."
126-129	20 Dec 1910	E.E.F. Creighton. Experiments on Circuits of the United Electric Lt. & Pr Co. Found "phantom or temporary troubles" for which cause is

		"unknown".
130	20 Dec 1910	J.L.R. Hayden to S.E. Blake, GE Pittsfield. Further tests comparing alundum and carborundum rods.
131-134	20 Dec 1910	C.P. Steinmetz to E.J. Berg, Univ. Illinois. Correct value of illumination midway between two lamps. More suggestions for advocacy of "our method" of electrical engineering analysis versus the rival "crank method".
135	21 Dec 1910	E.E.F. Creighton to S.H. Blake, GE Pittsfield. Elimination of Glycerine and use of B Electrolyte in Lightning Arrestors.
136-137	21 Dec 1910	E.E.F. Creighton to C.W. Stone, Ge. Failure of shaft of 100,000 cycle alternator. Found failure and resulting accident to be due to resonance.
138	21 Dec 1910	S.H. Blake, GE, to E.E.F. Creighton. Analysis of aluminum received from England for possible use in lightning arrestor cones.
139-140	21 Dec 1910	S.H. Blake, GE Pittsfield, to J.L.R. Hayden. Firing alundum rods in porcelain kilns.
141-143	21 Dec 1910	J.L.R. Hayden to N.R. Birge, GE. Response to article on quartz mercury lamp in Electrical Review of 17 Dec 1910. Refers to Weintraub lamp and German lamp. Information in article generally agrees with earlier results from Steinmetz lamp.
144-145	21 Dec 1910	C.P. Steinmetz to L.E. Barringer, GE Research Lab. Recommends further experiments on alundum versus carborundum rods, despite apparent superiority of carborundum.
146	22 Dec 1910	J.L.R. Hayden to E.E.F. Creighton. Tests on use of glycerine in the electrolyte of lightning arrestors.
147	22 Dec 1910	J.W. Root, Albany, to C.P. Steinmetz. Opportunity to upgrade status in Phi Gamma Delta fraternity.
148	22 Dec 1910	C.P. Steinmetz to Schwartz Toy Store, NY City. Return of toy lathe, which arrived broken.
149-150	22 Dec 1910	C.W. Stone, GE, to Ernst J. Berg, U. Illinois. Berg patent [steam meter?] appears to be anticipated by disclosure of a Prof. Thomas.
151	23 Dec 1910	J.L.R. Hayden to E.A. Guay, GE Lynn. Request for iron shells for use in making TiC electrodes.
152	23 Dec 1910	C.P. Steinmetz to Publisher of Data, Chicago, IL. Subscription to Data [a magazine?]
153-154	23 Dec 1910	C.P. Steinmetz to S. Ferguson, GE Research Lab. Instructions for making arc furnace TiC that Steinmetz Lab needs for TiC lamp development.
155	23 Dec 1910	C.P. Steinmetz to E.A. Guay, GE Lynn. Receipt and preliminary tests of 3 Ampere TiC compensator lamp. Goal is "development of a satisfactory low power carbide lamp."
156	23 Dec 1910	C.P. Steinmetz to L.J. Hirt. See 80 above. Suggestions for books for Brazilian engineer.
157	23 Dec 1910	C.P. Steinmetz to J.E. Yorkston, GE Drafting Dept. Recommendation of

		Carl E. Moot for draftsman.
158-164	24 Dec 1910	C.P. Steinmetz to C.W. Stone. Recommendations regarding the Moore Light, a gas discharge lamp possibly competitive to the arc light in large unit applications. "...it gives a very agreeable light of fair, though not startling, efficiency.... hardly applicable for general use... It appears now sufficiently developed to be seriously considered for the limited field for which it is suited, and if we can get control of it at reasonably moderate expense, it appear to be advisable to do so." [GE did buy the Moore Lamp Company and Moore patents in 1912, though the products do not appear to have been a big commercial success].
165-166	27 Dec 1910	E.E.F. Creighton to E.P. Edwards. "We are confronted on some systems with frequent problems internally on transformers ...The elimination of these troubles is worth many thousands of dollars to the General Electric Company. In order to develop the necessary apparatus we shall have to have a high frequency generator such as designed by Mr. Alexanderson. "Need this apparatus "very soon.... I cannot urge on you too strongly the importance of this matter".
167-168	27 Dec 1910	E.E.F. Creighton to C.P. Steinmetz tests on alundum and carborundum resistance rods.
169-170	27 Dec 1910	Klaus L. Hansen, Wilkinsburg, PA. Disagrees with a result obtained by C.P. Steinmetz in his treatise on Transient Phenomena. Has been studying this for 3-4 years and has always before been able to arrive at conclusions in agreement with C.P. Steinmetz.
171	29 Dec 1910	C.P. Steinmetz to H.L. Baltozer, GE. Shipment of household goods of L.H. Couchey to Pittsfield MA.
172	29 Dec 1910	C.P. Steinmetz to Maurice Moskovitz, Hamburg. Thanks for catalog.
173-174	29 Dec 1910	C.P. Steinmetz to E.W. Rice, Jr. Testing of all high voltage reactive apparatus by high frequency condenser discharge should be supplemented with high frequency alternator discharge as recommended by Creighton in 165-166 above. "It is therefore extremely important that we should have one or two high frequency alternators available... I should recommend to have two high frequency alternators built immediately for factory use."
175	30 Dec 1910	Ball & Ball to JLR Hayden. "We shall be glad to have you report on the carburetor we sent you."
176-177b	30 Dec 1910	E.E. F. Creighton to G. Faccioli, GE Pittsfield. Wants him to write to Mr. Stone speeding up delivery of high frequency alternator for tests on high frequency circuit protection. Includes memo on conference on tests in lightning arrester laboratory.
178-180	30 Dec 1910	C.W. Davis to C.W. Stone GE. Problems with Detroit Edison Feeder Regulators.
181	30 Dec 1910	George H. Fisher, International Correspondence Schools, to C.P. Steinmetz. Wants to verify C.P. Steinmetz remarks in a National Electric Light Association address that "correspondence offered a

		means to a technical education that is in many respects superior to a college education." Steinmetz shorthand.
182	30 Dec 1910	Walter E. Holland, Laboratory of Thomas A. Edison to C.P. Steinmetz. Was type B4 Edison battery shipped to you "satisfactory"? Steinmetz shorthand.
183	31 Dec 1910	J.L.R. Hayden to S.H. Blake, GE Pittsfield. Telegram. Will not be able to go to Fostoria next week.
184	1 Jan 1911	E.R. Berry to S. Ferguson, GE Research Lab. Requisition for 2000 lbs of Titanium Carbide made in resistance furnace.
185	2 Jan 1911	George Roux, EE, Philadelphia, to C.P. Steinmetz. Error, and question about, items in "Theory and Calculation of Transient Electrical Phenomena." Steinmetz shorthand.
186-187	2 Jan 1910	E.P Edwards, GE Lighting Dept., to C.W. Stone. Regarding diversion of alternator to transformer department per letters from Moody and Steinmetz to E.W. Rice, Jr. "We are manufacturing 6 100,000 cycle alternators for the National Electric Signaling Co., and 1 200,000 cycle alternator. These are months late and the customer has all along urged us to hurry their production. Therefore we haven't much hope that they will let us have one of their machines. I should hate to ask them for two."
188	2 Jan 1910	C.P. Steinmetz by J.L.R. Hayden to Olin J. Ferguson, Union College. "Dr. Steinmetz will start his Saturday evening lectures Jan 27, 1911, in his laboratory on Wendell Avenue. The subjects of lectures will be "General Lectures on Electrical Transients."
189	3 Jan 1911	J.L.R. Hayden to Jacobs & Sons., Brooklyn. Price list for greenhouse glass.
190	3 Jan 1910	S. Weber & Co., New York City. Price list for greenhouse glass.
191	3 Jan 1911	C.P. Steinmetz to Geo. E. Fischer. See 181 above. Remarks attributed to C.P. Steinmetz on Correspondence Schools are "substantially correct" . Reprint enclosed.
192	2 Jan 1911	C.P. Steinmetz to W.L. Abbot, Chief Operating Engineer, Commonwealth Edison Co., Chicago. Thanks for letter and load curve.
193	3 Jan 1911	C.P. Steinmetz to L.E. Barringer, GE Research Lab. Information regarding alundum and carborundum rods.
194	3 Jan 1911	C.P. Steinmetz to E.R. Berry, General Ceramic Co., Lynn, MA. Check for \$80.00 for balance of subscription for 20 shares of stock.
195	3 Jan 1911	C.P. Steinmetz to H.W. Darling, Schenectady Realty Co. Payment of bill and request for deed to additional plot of land C.P. Steinmetz bought "some years ago".
196	2 Jan 1911	C.P. Steinmetz to Klaus Hansen, Wilkinsburg, PA. See 169-170 above. Hansen's findings are correct, book contains typographical errors on referenced equations, including "a number" of other errors in the book, which C.P. Steinmetz requests Hansen's help in locating.
197-199	3 Jan 1911	C.P. Steinmetz to A.B. Hendricks, GE Pittsfield. Corrections to Hendricks's paper on insulating materials.

200	3 Jan 1911	C.P. Steinmetz to Walter E. Holland, Laboratory of Thomas A. Edison. See 182 above. Edison battery is in use in Steinmetz laboratory and "am very pleased with the same."
201-202	3 Jan 1911	C.P. Steinmetz to Prof. Henry H. Norris, Cornell U. C.P. Steinmetz will attend Sibley dinner at Cornell. "I have become greatly interested in Mr. Emmet's proposed method of ship propulsion by turbine and induction motors" and seeks Cornell data on performance of propellers.
203	3 Jan 1911	C.P. Steinmetz to E.W. Rice, Jr. Regarding Mr. Hendrick's paper (see above, 197-199) "I have taken out all the curves except those dealing with pressboard" so paper can convey its main message "without giving away any data on our high potential insulation."
204	3 Jan 1911	C.P. Steinmetz to J.W. Root, Albany. "Brother Fiji... very pleased to be a charter member of a Graduate Chapter... Brother J.L.R. Hayden would also like to join Graduate Chapter.... Fraternally yours."
205-206	4 Jan 1911	C.P. Steinmetz to C. Lavarack, School of Railway Signaling, Utica NY. Technical details on measuring the resistance of a ground, in answer to letter.
207	4 Jan 1911	A.H. McIntire, editor, Electrical Journal, Pittsburgh, PA. Still awaiting answer to inquiry about statement in C.P. Steinmetz book. (books by Hobart and by Steinmetz disagree on magneto-active force in a three-phase alternator).
208	4 Jan 1911	C.P. Steinmetz to Grand Union Hotel, Manager, NY City. Telegram. Room reservation.
209-210	4 Jan 1911	C.P. Steinmetz to Charles Wallace Hunt, Chairman, Committee of Nine, NY City. Enclosed is C.P. Steinmetz ballot for first 25 Members of the American Academy of Engineers. (Charles Wallace Hunt was a Mechanical Engineer and owner of a construction and machinery company, with an interest in engineering ethics.)
211-213	4 Jan 1911	C.P. Steinmetz to E.W. Rice, Jr. Development of condensation products for high potential insulation. "As you know, our high potential insulation is not quite satisfactory." Bakelite based "condensation products" are promising, but results so far are inconsistent. Recommends that both Schenectady Research Laboratory and Pittsfield Engineering Department conduct further work. "... the work in Pittsfield would be on engineering and manufacturing lines, and in the Research Laboratory in scientific theoretical direction."
214-215	4 Jan 1911	C.P. Steinmetz to C.A. Raymond, President, Union College. Requests to take F.W. Peek, Jr. as Ph.D. student. Peek is already an accomplished researcher who will give a course to Union students.
216	4 Jan 1911	Percy H. Thomas, E.E., NY City to C.P. Steinmetz. Requests C.P. Steinmetz permission to comment on C.P. Steinmetz discussion of paper by Prof. Ryan.
217	4 Jan 1911	L. Gibson, Production Mgr., GE, to C.P. Steinmetz. Materials orders.
218-	6 Jan 1911	G. Faccioli, GE, Pittsfield, to C.P. Steinmetz. "... we are about to decide"

219		on appropriate value for reactance on transformers for Shawinigan Water and Power Co. and "I would like to have your views on this matter."
220	6 Jan 1911	J.L.R. Hayden to Hall and Hall, Bound Brook, NJ. Return of carburetor.
221	6 Jan 1911	J.L.R. Hayden to A. McK. Gifford. "What do you think of the attached?" [Nothing attached].
222	6 Jan 1911	Henry H. Norris, M.E., Cornell U. to C.P. Steinmetz. Sibley Dinner and request for propeller research data (see 201-202 above).
223-224	6 Jan 1911	H.W. Peck, Rochester Railway and Light Co. Request for dinner speech.
225-227	6 Jan 1911	C.P. Steinmetz to Prof. D.C. Jackson, MIT. "... while you state in your letter (undoubtedly based on experience) that I never answer letters, I will do so... I have thought of the subject ever since our former failure of a code of ethics.... we have been too ambitious and tried to included too many details... application may greatly change with the change in industrial conditions... in the states it has been considered improper for a designing engineer to leave a manufacturing company and immediately go to a competitor, while this has been the custom in Europe." C.P. Steinmetz does not believe that a special committee on ethics "should in any way related or connected with the present 'committee on engineering relation' ...[which] as I understand it is, brutally expressed; A committee of consulting engineers to fix minimum wages and eliminate scab labor, that is, the purpose of a trade union." Ethics committee should be a committee of "not more than five members," with "the assistance and advice of men like Professor Thomson, William Stanley, Dr. Wheeler, F. Sprague, Mr. Lieb and other men of this class."
228	7 Jan 1911	Walter [?] Heumiller, Association of Edison Illuminating Companies. Transcript of Steinmetz remarks for corrections.
229-230	7 Jan 1911	C.P. Steinmetz to L.E. Barringer, GE Research Laboratory. Research on condensation products. Aiming at superior properties that varnish insulation.
231	7 Jan 1911	C.P. Steinmetz to A.B. Hendricks, GE Pittsfield. Sending sheet of molded compound of asbestos fiber for test of disruptive strength under oil.
232	7 Jan 1911	C.P. Steinmetz to F.A. Howe, Schenectady. Bill sent by mistake.
233	7 Jan 1911	C.P. Steinmetz to Director, Dept. of Interior, Washington DC. Wants to receive advanced notice of future publications of Bureau of Mines.
234-235	7 Jan 1911	C.P. Steinmetz to A.R. McIntyre, Electrical Journal. (See 207 above). Gives details of C.P. Steinmetz derivation of armature reaction formula. Unable to comment on Hobart's.
236	7 Jan 1911	C.P. Steinmetz to M.P. Rice, GE. Add Lauren V. Seares, Central Colorado Power Co. to mailing list for technical publications.
237	7 Jan 1911	C.P. Steinmetz to Percy E. Thomas, NY City. Will "be glad" for Thomas to take part in discussion of Prof. Ryan's paper.
238	9 Jan 1911	T.G. Johnson, patent Attorney, NY City, to C.P. Steinmetz. Seeks

		explanation of a [72 word] sentence on inter-pole converters in Steinmetz's discussion in current "Proceedings" [of AIEE?]
239	9 Jan 1911	E.O. Pollard, Losier Motor Co., Plattsburgh, NY. Arc light installed at Losier plant has been giving "very good service."
240	10 Jan 1911	J.L.R. Hayden to M.W. Allen, National Carbon Co., Cleveland OH. Telegram. "Will be here Wednesday."
241	10 Jan 1911	J.L.R. Hayden to E.R. Berry, GE Lynn. Preparation of Magnetite and Titanium Carbide electrodes.
242	10 Jan 1911	J.L.R. Hayden to G.N. Chamberlin, GE Lynn. Would like to get report on reactance of constant potential magnetite arc lamp.
243	10 Jan 1911	J.L.R. Hayden to A. McKay Gifford. "kindly send us back the tubes which made the tests for us..."
244	10 Jan 1911	J.L.R. Hayden to E.J. Guay, GE Lynn. Telegram. "Please send the 500 Volt Compensator and Canopy for titanium lamp."
245	10 Jan 1911	J.L.R. Hayden to E.J. Guay, GE Lynn. Details on request above.
246	10 Jan 1911	J.L.R. Hayden to McGraw Hill Book Co. Would like to get answers to problems in W.V. Lyon, "Problems of Electrical Engineering."
247-250	10 Jan 1911	D.B. Rushmore, GE Power & Mining, to M.A. Oudin, GE, copy to C.P. Steinmetz. Possible problems on Shawinigan Transmission System. "Such figures we may give are given with the express understanding that they are not to be used as the basis of guarantees...nor as binding the General Electric Co...."
251	10 Jan 1911	C.P. Steinmetz to C.c. Chesney, GE Pittsfield. G. Faccioli, A.B. Hendricks, and A. McK. Gifford should attend this week's AIEE meeting on "High Voltage Phenomena" featuring work of "Mr. Ryan" [Prof. Harris Ryan, Stanford?]
252-253	11 Jan 1911	C.P. Steinmetz to F.C. Lavarack, Utica NY. Method of measuring Ground Reactance, in answer to query in 205-6, above.
254-255	11 Jan 1911	C.P. Steinmetz to A.A. Buck, Patent Dept. Assessment of "an alloy alleged to be discovered by a German Dr. Steiner" with "approximately zero hysteresis." "I believe that such an alloy... could find a considerable use in our work.... and we should try to secure it....is quite possible that the claims of this German are correct... have him come up to Schenectady to make the material, provided that he does not expect a fortune." [These may be Heusler Alloys, a subsequently significant class of magnetic alloys discovered by German mining engineer Friedrich Heusler in 1903].
256-257	11 Jan 1911	C.P. Steinmetz to W.S. Moody, GE Pittsfield. Breakdown of Detroit potential regulators. "I was horrified to find that we use in our apparatus in places where reliability is essential, material of which we do not know the composition.... I believe here we run into one of the defects of over specialization and corresponding loss of responsibility."
258	13 Jan 1911	J.S. Ames, Johns Hopkins to C.P. Steinmetz. Enclosed page proofs of volume on Illuminating Engineering.

259-260	13 Jan 1911	C.P. Steinmetz to L. Bunet, Paris. "My dear Bunet". Thanks for complete list of errata in "Transient Phenomena." [Perhaps Paul Bunet, inventor of various electrical devices]
261	13 Jan 1911	C.P. Steinmetz to Prof. Henry H. Norris, Cornell. Visit plans.
262	13 Jan 1911	C.P. Steinmetz to E.W. Rice. Results of Pittsfield and Schenectady tests on Bakelite, enclosed, are "remarkable... decidedly superior to that of our standard insulation."
263	13 Jan 1911	C.P. Steinmetz to Geo. P. Roux, Philadelphia PA. Answer to letter regarding depth of penetration of high frequency current in river water.
264-266	14 Jan 1911	C.P. Steinmetz to Thomas J. Johnston, NY City. Answer to letter regarding hunting of synchronous machines.
267-268	16 Jan 1911	E.J. Berg to C.W. Stone, GE. Copy to C.P. Steinmetz. Details of steam flow meter.
269	16 Jan 1911	D.D. Duisberg [?] National Carbon Co., to C.P. Steinmetz. Upcoming Steinmetz talk to "our men has created a very great interest among them, and we hardly know how to express sufficient appreciation."
270	16 Jan 1911	H.S. Smyth, Harvard U. to C.P. Steinmetz. "The nominating committee of the Association of Harvard Engineers are desirous of nominating you for the presidency of the association for the coming year."
271	16 Jan 1911	C.P. Steinmetz to J.S. Ames, Johns Hopkins U. Return of corrected page proofs.
272-273	16 Jan 1911	C.P. Steinmetz to W.S. Moody, GE Pittsfield. "AS you know, our high voltage insulation needs further improvement, and some very promising results have been derived by the use of synthetic gums, as bakelite.... speaking with Mr. Edison, he stated that he had some experience with these materials and would be willing to let us have the benefit of his experience. Last week Messrs. E.W. Rice, Jr., C.W. Stone and myself visited Mr. Edison." Suggests A. McK. Gifford of GE Pittsfield spend some time at Edison's Lab learning more about Edison results with Bakelite.
274	17 Jan 1911	S.H. Blake, GE Pittsfield, to J.L.R. Hayden. Vertical flame lamp and "Old AB lamp".
275	17 Jan 1911	Allan B. Hendricks, GE Pittsfield, to C.P. Steinmetz. "I trust that you will be pleased to know that I have accepted the position in the transformer department."
276	17 Jan 1911	Gov [?] Hughes, GE, to J.L.R. Hayden. Arc lamps.
277	17 Jan 1911	H.W. Peck, Rochester Railway and Light Co. to C.P. Steinmetz. Second request for dinner speech.
278	17 Jan 1911	C.P. Steinmetz to J. Ames, Johns Hopkins U. Enclosed index to Illuminating Engineering Lectures.
279-280	17 Jan 1911	C.P. Steinmetz to E.J. Berg, U. Illinois. Answers to questions about results in "Transient Phenomena." Would like to see Berg steam meter tried "on one of our engines."
281	17 Jan 1911	C.P. Steinmetz to H.S. Smyth, Harvard U. Pleased to accept nomination

		of the Association of Harvard Engineers. See 270.
282	17 Jan 1911	C.W. Stone, GE, to C.P. Steinmetz and 6 others. Notice of conference on High Voltage Switches.
283	18 Jan 1911	C.C. Chesney to C.P. Steinmetz. Bakelite. See 272-273 above. Can permit A. Mc.K. Gifford to spend 7-10 days away from Pittsfield to "carry on a full investigation". [Of Bakelite work at Edison Lab.
284-285	18 Jan 1911	Walter S. Moody, GE, to E.B. Merriam, Switchboard Dept., GE. Copy to C.P. Steinmetz, Tests on Synchronizing and current limiting reactances, Commonwealth Edison. Co.
286	18 Jan 1911	C.P. Steinmetz to E.W. Allen, National Carbon Co. Cleveland OH. Telegram. Ship by express 6 dozen hard carbon.
287	18 Jan 1911.	C.W. Stone, GE, to E.A. Baldwin, GE. Mr. Peek, of our department, should be the proper man to have charge of details of demonstration of corona on experimental transmission line at AIEE meeting.
288	19 Jan 1911	Frederick Bedell, Cornell U. to C.P. Steinmetz. Details of Sibley banquet. Can you address AIEE- Ithaca also? Steinmetz shorthand.
289	19 Jan 1911	J.L.R. Hayden to S.H. Blake, GE Pittsfield. Improvements in converging flame lamp.
290	19 Jan 1911	H.C. Nelson, GE to C.P. Steinmetz. Request to sign application for Nelson AIEE membership.
291	19 Jan 1911	C.P. Steinmetz to A.B. Hendricks, GE Pittsfield. "My best congratulations to your entrance into the Transformer Department." See 275 above.
292	19 Jan 1911	C.P. Steinmetz to Walter E. Holland, Thomas A. Edison Laboratories, Orange NJ. Thanks for "exhibit cell of Edison storage battery and some of the nickle [sic] copper sheets and nickle flake"
293-294a	19 Jan 1911	C.P. Steinmetz to E.W. Rice, Jr. C.P. Steinmetz Bakelite at Pittsfield. "The transformer appears to be the apparatus best suited for the first introduction of this material. Use in alternator insulation is a "more difficult problem."
295	19 Jan 1911	C.P. Steinmetz to E.W. Rice, Jr. Enclosed nickel copper sheet and nickel flake received from Edison Storage Batter Company.
296-297	19 Jan 1911	C.W. Stone, GE, to W.S. Moody, GE Pittsfield. Copy to C.P. Steinmetz. Mica Tape on Induction Regulator Coils. "It seems to me that our system is radically wrong." "I do not think we should in any case get information from shop foremen when there is some department specifically designated for the sending out of such information." Appears that CCl4 was used on mica tape without consulting the expert on such matters, Mr. Barringer, who would have recognized that this would cause a problem. The problem was that hydrochloric acid was given off, with the resulting weakening of insulation. This may have been connected with a breakdown in a regulator coil during internal short circuit tests.
298-300	20 Jan 1911	Report of Meeting Called to Discuss High Tension Switching. Present: C.P. Steinmetz [listed first], C.W. Stone, Chairman, and 8 others

		including Alexanderson, Peek and Faccioli. Issue is whether switching should ever be done on high voltage side of transformer. Westinghouse recommends against it. Sense of meeting was that committee should investigate further, recommend against high tension switching until investigation is complete. "Dr. Steinmetz outlined the theory of high frequency oscillation in which there was a general discussion."
301-302	20 Jan 1911	Philip L. Day, Cornell U. to C.P. Steinmetz. Details of visit for Sibley Banquet. Steinmetz shorthand.
303-304	20 Jan 1911	W.S. Moody, GE Pittsfield, to C.P. Steinmetz. Regarding letter from C.P. Steinmetz on 11 Jan 1911. See 256-257, and 296-297. "You should not conclude from this instance that it is our habit to use materials we do not know all about." Pittsfield "sent both Engineers and Shop people to Schenectady to get not only the written instructions but the factory practice." Troubles at Detroit were due to ozone, not to this materials issue, and are being corrected accordingly.
305-306	20 Jan 1911	E.W. Rice, Circular Letter A-528. Design Engineers Corresponding Direct With District Offices in Connection With Requisitions.
307	20 Jan 1911	E.W. Rice, Jr. Circular Letter A-529. Verbal Requests for Blue Prints. These "will only be made in cases of great urgency."
308	20 Jan 1911	Samuel Sheldon, Polytechnic Institute, Brooklyn. Course on Electric Traction and Transmission (8 lectures) to be given by Steinmetz next year.
309	20 Jan 1911	C.P. Steinmetz to E. Bedell, Cornell U. Will address Ithaca AIEE as requested.
310	20 Jan 1911	C.P. Steinmetz to Secretary, Carnegie Institution. Requests copy of "Researches on the Performance of the Screw Propeller" by Prof. W.F. Durand.
311	20 Jan 1911	C.P. Steinmetz to W.L.R. Emmet. Referring to question of ship propellers, "being interested in the matter" C.P. Steinmetz wants to get copy of Durand paper referred to above.
312	20 Jan 1911	Same as 311
313	20 Jan 1911	C.P. Steinmetz to H.C. Nelson, New York Office, GE. "very glad to have you use my name" on AIEE applications.
314	20 Jan 1911	C.P. Steinmetz to E.E. Peck, Rochester Railway & Light Co. "Impossible for me to be present at banquet."
315	29 Jan 1911	C.P. Steinmetz to Warren B. Strong, Editor, Harvard Engineering Journal. "Feel rather ashamed I have not fulfilled my promise long before" of an article. Promises one by end of February.
316-317	21 Jan 1911	Walter S. Moody to C.W. Stone. Mica Tape in Induction Regulator Coils. Feels that in procedure used in choosing compound for coils (see above) "we were entirely justified" as this was not a new compound but a "practice already developed." (See 256-267, 296-297) "We went to the shop foremen for the information at Schenectady, because of the unfortunate fact that there was nowhere else to go.... We did not go to

		Mr. Barringer because he disclaims knowledge of what is being done in the Winding Department. He tells them about his compounds, and then leaves it to them to use, when and how they see fit.”
318	21 Jan 1911	C.P. Steinmetz to Thomas A. Edison. Introduces by this letter Mr. Gifford of GE Pittsfield, chemist, who will, with the assistance of J.L.R. Hayden, visit Edison Laboratory to further investigate Bakelite insulation. See 272-273, 283 above.
319	21 Jan 1911	C.P. Steinmetz to W.E. Holland, Edison Storage Battery Co. Introduction of Gifford, see above.
320	21 Jan 1911	C.P. Steinmetz to W.H. Meadowcroft. Introducing Gifford, see above.
321	21 Jan 1911	C.P. Steinmetz to Messrs. Joseph Spiero & Co. NY. City. Expediting shipment of the Braun tubes. [Cathode Ray tubes for high frequency testing] See Book 4.
322-323	23 Jan 1911	E.J. Berg, Cornell U. to C.P. Steinmetz. “Regarding last year’s graduates... Mr. Doyle is the best man... Mr. Shirley would be the man that would do the best work of the kind you want ... a man of very great promise in theoretical work. .. Mr. Sonntag is another most remarkable man”
324	23 Jan 1911	J.L.R. Hayden to S.H. Blake, GE Pittsfield. Sending impregnated carbons.
325	23 Jan 1911	D.B. Rushmore, GE Power & Mining Dept, to A.R. Bush, Mgr. Power & Mining Dept. Estimate for apparatus for the nitrogen plant of the Southern Power Co. Specifications are “very indefinite and incomplete.” After looking over information on Pauling Process and “consultation with Dr. Steinmetz and others, it seems very possible that the apparatus on which we have estimated may be entirely unsatisfactory” Customers engineers should come to Schenectady for consultation, to avoid another “unfortunate experience” such as that of Susquehanna Smelting Co.
326	23 Jan 1911	C.P. Steinmetz to S.H. Blake, GE Pittsfield. Train reservations to Cleveland for Blake and Mr. Chesney.
327	23 Jan 1911	C.P. Steinmetz to Major Gifford, GE Transportation Dept. Train reservations to Cleveland and return from Toledo.
328	24 Jan 1911	E. Seelman, Editor, National Electric Light Association to C.P. Steinmetz. Sends a question from “one of our member companies in the Middle West” on whether a particular high voltage design would “endanger our apparatus.” Editor notes: “I believe that this is a question which can only be answered authoritatively by very few people” and answer ‘would be of interest and value to a number of our member companies.... A small contribution from you on the subject would be highly appreciated.”
329	24 Jan 1911	C.P. Steinmetz to L.E. Barringer, GE Research Laboratory. Returning one paper on synthetic resins, wants another.
330	24 Jan 1911	C.P. Steinmetz to P.L. Day, Cornell U. Arrangements for Sibley Banquet.
331-332	24 Jan 1911	C.P. Steinmetz to Prof. Samuel Sheldon, Polytechnic Institute, Brooklyn. Will be glad to give 8 lecture course at Polytechnic Institute next

		winter on Electric Traction and Transmission, and includes outline.
333-334	24 Jan 1911	L.L. Vincent to C.P. Steinmetz. Vincent, a 1910 Member of the Steinmetz Club at University of Missouri, is now with Telluride Association [an educational program] at Ithaca, NY, and would like to see C.P. Steinmetz during visit to Ithaca. Steinmetz shorthand.
335	25 Jan 1911	John H. Finney to C.P. Steinmetz. Telegram. Request for talk in Atlanta. C.P. Steinmetz handwriting: "Impossible to come."
336	25 Jan 1911	J.L.R. Hayden to John W. Brown, National Carbon Co., Cleveland. C.P. Steinmetz unable to give talk in Cleveland.
337-339	25 Jan 1911	J.W. Kirkland, South African GE, to GE Foreign Department. Comparison of recently delivered Siemens Schukert Co. Motor Driven Air Compressors with GE models.
340	25 Jan 1911	C.P. Steinmetz to Thomas A. Edison. Thanks for "the kind reception you have given" to Hayden and Gifford. See 318 above. Suggests Edison send Mr. Aylesworth to see GE tests of these materials (Bakelite based) with high voltage alternating current.
341	25 Jan 1911	C.P. Steinmetz to John H. Finney. Telegram See 335 Above. "Impossible to come."
342	25 Jan 1911	C.P. Steinmetz to John H. Finney. "I desired very much to come down and speak... I am in fullest sympathy with the conservation movement."
343-346	25 Jan 1911	C.P. Steinmetz to W.C. Fish, GE Lynn. Possible improvements in the magnetite arc lamp. Magnetite arc lamp, while relatively the best of modern high efficiency arc lamps, has the disadvantage of some unsteadiness of light and lower efficiency than the best flame carbons. "Titanium gives the light" but formation on titanium of non-conducting slag limits efficiency. Fused electrodes still appear promising for overcoming these problems, though research attempts so far have not led to development.
347	25 Jan 1911	C.P. Steinmetz to Editor, GE Review. C.P. Steinmetz regrets he did not get to preview illustrations for recent C.P. Steinmetz article "Energy Loss Through Corona" and stop use of "a wretched reproduction" which he was "horrified" to see as Fig. 3 in the article.
348	25 Jan 1911	C.P. Steinmetz to Klaus L. Hansen. The equation Hansen refers to on p. 94 of "Transient Phenomena" does indeed contain an error, as Hansen pointed out. "... thanks... I hope you will let me know any further mistakes..."
349-350	28 Jan 1911	E.R. Berry, GE, to J.L.R. Hayden. Fluxes of magnetite electrodes. The operation so far of lamps with attempted improvements in electrode fabrication "seem to the writer to be far from satisfactory."
351	30 Jan 1911	D.D. Dudley [?] General Manager, National Carbon Co., Cleveland. Thanks for visit and address. ..." enclose herewith check to cover the expenses of yourself and associates..."
352	30 Jan 1911	A.H. Moore, GE, to C.P. Steinmetz [first on list] and 8 others, including Emmet, Moody, Erben, Priest. Meeting on investigation of high

		potential insulating materials and methods.
353-355	30 Jan 1911	C.P. Steinmetz to L.E. Barringer, GE Research Lab. "... consider the advisability of reopening the entire question of manufacturing [alundum and carborundum] resistances." Presently used resistances are "very far from being as satisfactory as I believe you could develop a way of making them." Includes many suggestions.
356	30 Jan 1911	C.P. Steinmetz to E.J. Berg, U. Illinois. Hopes that Berg can come to Schenectady to discuss his steam meter, and help finalize plans for the building one or two meters in Steinmetz's department.
357	30 Jan 1911	C.P. Steinmetz to G.N. Chamberlin, GE Lynn. Reactances for DC multiple magnetite lamps.
358-359	30 Jan 1911	C.P. Steinmetz to A. McK. Gifford. Views it as "important" that these "very interesting" tests showed "a great inferiority in cotton tape, compared with blotting paper" as matrix for Bakelite. Suggests tests be repeated with linen and asbestos tape. Currently "cotton tape largely enters our insulation."
360-361	30 Jan 1911	C.P. Steinmetz to F. Osgood, Newark, NJ. Comments on Osgood's "Specifications for Overhead Crossing of Electric Light and Power Lines." "I do not think you want to go on record as being the first who tries to break down our high standard of safety, by lowering it."
362-363	30 Jan 1911	C.P. Steinmetz to W.B. Potter, GE. "I do not share the now prevailing opinion, that there is no field of application for the single phase railway motor." There is no promise for 15 cycle, or for 'our present 40 cycle (and 50 cycle) installations, with which we have mistakenly littered up the country our own factory included..... we should concentrate our efforts to design the very best 25 cycle locomotives we can make.....A line of 1200 and 2400 volt D.C. and of 25 cycle single phase AC motors as standard I believe would cover everything required by the railway problem.
364	30 Jan 1911	C.P. Steinmetz to E.W. Rice, Jr. Proposes Ge buy one of Mr. Moore's "light windows" (see Book 4) and quickly determine if it has any novelty or feature worthy of GE's interest.
365	30 Jan 1931	C.P. Steinmetz to E.W. Rice. Disruptive strength of Bakelite. Results on Bakelite impregnated cotton tape are disappointing, but "I am arranging to continue the investigation."
366	30 Jan 1911	C.P. Steinmetz to E. Weintraub, GE Lynn. Comments on Weintraub's "continuous current rectifier transformation scheme.... believe that it would work satisfactory [sic] As soon as I have built my laboratory extension, I shall try the arrangement...
367	30 Jan 1911	C.P. Steinmetz to L.L. Vincent. Will be glad to visit Relluride Association while at Cornell U.
368	31 Jan 1911	J.L.R. Hayden to M.W. Allen, National Carbon Co. White flam carbon lamps, and other lamps.
369	31 Jan 1911	J.L.R. Hayden to E.R. Berry, GE Lynn. "Mr. Gifford and I went down to Mr. Edison's laboratory last week to learn about a new synthetic resin

		which is much better than bakelite. We brought some various samples and are much impressed with it. We found Mr. Edison very much far advanced than Bakeland and the advantages of course of his synthetic resin are much greater." Suggests Lynn engineers visit Schenectady to learn of this, plus advances on "the magnetite question."
370	31 Jan 1911	A.B. Hendrick, GE Pittsfield, to C.P. Steinmetz, Enclosed discussion of Prof. Ryan's "Treatise on the Electron Theory."
371	31 Jan 1911	C.P. Steinmetz to A.A. Buck, GE Patent Dept. Patent specification of Mr. Baum "narrow in its scope" ... the Van der Wyde patent anticipated the invention."
372-374	31 Jan 1911	C.P. Steinmetz to E.E. Seelman, Jr., Brooklyn. Answering question, C.P. Steinmetz regards opening a 50,000 volt charging current with an air switch "to involve some danger, and therefore as undesirable... except in emergencies". Details follow.
375	31 Jan 1911	C.P. Steinmetz to J.H. Warder, Secretary, Western Soc. of Engineers, Chicago. "...send Mr. Rose some copies of the journal..."