The Johns Hopkins Metaphysical Club and Its Impact on the Development of the Philosophy and Methodology of Sciences in the Late 19th-Century United States

Ahti-Veikko Pietarinen & Jean-Marie Chevalier

The Commens Working Papers
Preprints, Research Reports & Scientific Communications

Edited by Mats Bergman, Sami Paavola & João Queiroz

No 2
Version 2
Published July 9, 2014 | Updated December 17, 2015
ISSN 2342-4532
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The Johns Hopkins Metaphysical Club and Its Impact on the Development of the Philosophy and Methodology of Sciences in the Late 19th-Century United States

Memorandum, 19 April 2014 - up-dated, with Appendices, April 2015

Ahti-Veikko Pietarinen, in collaboration with Jean-Marie Chevalier

hti.pietarinen@gmail.com
Helsinki Peirce Research Centre, University of Helsinki

Abstract

This memorandum documents some of the most noteworthy facts concerning the Metaphysical Club meetings, which were presided over by Charles Peirce, at Johns Hopkins University from October 1879 until March 1885. The Club, which started out as a circle consisting of Peirce’s own students in his logic class, held the total of 43 meetings, with 110 presentations delivered, of which 33 were classified as principal papers. These presentations, as we document in this paper, testify the club’s impact on the development of the methodology of sciences in the late 19th-century United States. Of particular interest is the close relation of the new and emerging scientific approaches to philosophical, methodological and logical issues discussed by the Club’s members. This impact, as well as the Club’s manifestly interdisciplinary approach to research, calls for a comprehensive investigation and evaluation.

Introduction

Max Fisch (1976) has estimated that no other graduate philosophy club has had a comparable impact on the progress of research in the United States as Peirce’s ‘Second’ Metaphysical Club had. What was the Club, who participated in its meetings and what became of those people? A comprehensive history of the Metaphysical Club is yet to be written; our current document gives a run-down of the bios of those people and the minutes of the meeting, highlighting some of the most noteworthy facts that ought to belong to any such historiography.

Of Peirce’s students (and counting those who were enrolled to any of his courses while he was teaching at the JHU) the speakers were Ellery W. Davis, John Dewey, Fabian Franklin, Benjamin Ives Gilman, Joseph Jastrow, Christine Ladd (Franklin), Allan Marquand, Oscar H. Mitchell, Charles W. Nicholls. Of his colleagues, we find A.T. Bruce (biology), Basil L. Gildersleeve (classics), G. Stanley Hall (psychology), H. Newell Martin (biology), George S. Morris (philosophy), Ira Remsen (chemistry), W.T. Sedgwick (physiology), Benjamin Eli Smith (science editor) and Edmund Beecher Wilson (genetics). Notable students who did not present were Henry Taber and Thorstein Veblen, and of JHU faculty, Simon Newcomb (mathematics), Henry A. Rowland (physics), J.J. Sylvester (mathematics) and William Dwight Whitney (Sanskrit/linguistics). Well known external speakers included Lester F. Ward (sociology). We also identify and list in the Appendix all those who were associated with the Club but did not present or were not Peirce’s students; the natural reason why some did not present in the MC was that during those years there were several other regular seminar activities at JHU that were more suitable for presenting research in some other fields, such as the well-known Mathematical Seminary by Sylvester that was the forum for research in pure mathematics.

The 19th century saw the emergence of the idea of new universities for scientific research and graduate study: “to give three prominent examples, the amassment of certain industrial fortunes enabled benefactors Johns Hopkins to establish Johns Hopkins University, primarily for graduate education; Jonas Clark to establish Clark University; and John D. Rockefeller to establish the University of Chicago as a Baptist institution of
higher learning”. The value of new ideas that were emerging in American educational and research circles show up also in Charles Peirce’s brother James Mills Peirce’s comments to the JHU President Daniel Coit Gilman. Echoing his 1880 Paris speech, he noted that Hopkins has “a great advance in the university system of this country, and as the only American institution where the promotion of science is the supreme object, and the trick of pedagogy is reckoned as of no value” (February 14, 1881). Peirce himself spoke these famous words: “This is the age of methods; and the university which is to be the exponent of the living condition of the human mind, must be the university of methods” (1882). Remarks by Peirce’s students testify that although it is the methods of science that were the centrepiece of the discussions and the topic of the meetings, pedagogy and general education were among Peirce’s virtues and part of the idea of the meetings and the cultivation of its ideas in the wider context.

The Minute Book of the Club’s meetings tells that “the object of this association shall be the preparation and discussion of papers relating to logic, psychology, ethics and the first principles of things”. The supreme value of the interplay between philosophy of science, as well as the interdisciplinary character of all research, was thus naturally and spontaneously recognized and needed no special promotion. Fisch remarks that, had Peirce continued lecturing at JHU, “there would have been at least one university in which philosophy was in living touch with science; in which it was a field of research, not of indoctrination or of ‘the strifle of systems’; in which it was neither a conscious apologist nor a ventriloquist’s dummy for the masters of business and property”. Inspection of various events concerning the Metaphysical Club meetings at JHU in 1879-1885 not only confirms Fisch’s observation but also that following Peirce’s departure, JHU lost a number of other original minds. Club’s minutes throws new light, for instance, on the question of why Peirce ultimately lost the JHU position to G. Stanley Hall and was forced to leave the site, and why philosophy had to give way to new research in experimental psychology, although, ironically, it was precisely Peirce and his student who made a lasting impact on the development of those experimental methods in psychology, philosophy, and other sciences.

The reason why we should put the ‘second’ in square quotes when referring to this ‘second’ instalment of the Metaphysical Club is that it is not clear whether the ‘first’ Metaphysical Club (Fisch, Menand) was ever named as such; Fisch casts doubt of the adequacy of such moniker on the grounds that Peirce’s own recollections of that early gathering in Cambridge post-date the meetings for some 35 years.

Main sources of this document are The Metaphysical Club Minute Book (unpublished), JHU Circulars and JHU Yearbooks, as well as numerous other archive sources.

The Metaphysical Club Meetings, Johns Hopkins University

28 October 1879 – 3 March 1885. 43 meetings, 110 presentations, c.33 principal papers


From the Metaphysical Club bylaws:
“Art. II Object. The object of this association shall be the preparation and discussion of papers relating to logic, psychology, ethics and the first principles of things.” (Minute Book (henceforth MB), second meeting)

1879
First meeting, 28 October. Sixteen persons present.

“On the metaphysical fallacy, especially as illustrated by the Greek Philosophers” (MB)
“This paper pointed out several notable instances in which the ancients had mistaken grammatical for real analogies.” (JHU Circulars 2, p.18)


“Mr. B. I. GILMAN stated and defended the Doctrine of Limits” (JHUC 2).


Gilman’s Skiascope, 1918

The Gilman Model: “Gilman championed what has become the dominant paradigm for art museums since then; the white gallery housing only a few objects, provided with benches so the lone visitor could appreciate a single artwork at time in a properly contemplative state.”
https://exhibitdev.wordpress.com/tag/benjamin-ives-gilman/

“On the distinction between the Leibnitzian and the Newtonian Calculus” (MB)
“MR. GANTT considered the difference between the Calculus of Leibnitz and that of Newton” (JHUC)

[Compare this with the Helsinki Metaphysical Club, which has had 97 presentations since 1998 until 9/2014, excluding special workshops & conferences.]
Henry Laurence Gantt, A.B., M.E. (1861-1919), American mechanical engineer and management consultant famous for developing the Gantt chart in the 1910s. The Henry Laurence Gantt Medal is awarded for distinguished achievement in management and in community service. This chart is used also in Information Technology to represent data that has been collected.

http://en.wikipedia.org/wiki/Gantt_chart

4. Zeno’s Four Arguments against Motion. Waldo Selden Pratt. Peirce’s student.
“MR. PRATT presented a communication on Zeno’s Four Arguments against Motion” (JHUC 2).

W.S.P. (1857-1939), Professor of Music and Hymnology in Hartford theological seminary, Lecturer on music history at the institute of musical art. Introduces and defends the term ‘musicology’ in 1915: “German scholars were the pioneers in the formal academic study of music, an enterprise they called ‘Musikwissenschaft.’” Its English-language counterpart, “musicology,” was slower to catch on. The word was still considered a dubious neologism in 1915, when Waldo Selden Pratt inaugurated the brand-new Musical Quarterly with “On Behalf of Musicology.” Pratt divides musicology into seven categories: Musical Physics (or acoustics), Musical Psychics (that is, psychology), Musical Poetics, Musical Aesthetics, Musical Graphics (“or Semiotics, if a somewhat more general term is desired”), Musical Technics, and Musical Practics”.

http://www.library.yale.edu/musiclib/exhibits/histories/pratt_musicology.html

“A paper from Miss Christine Ladd on the Non-Euclidean conception of Space was then read by Mr. Peirce. This was followed by a Refutation of the Doctrine of Limits by Mr Allan Marquand.” (MB)

“Assuming that we know nothing of the actual construction of space, it was shown that Euclid entreated but one mode of representing it; and that by using the classification of curves of the second degree, three modes representing space might be entertained, thus giving rise to the Euclidean or Parabolic geometry, and to two Non-Euclidean, the Elliptic and Hyperbolic geometries.” (JHUC 2)

C.L.F. (1847-1930), Vassar, PhD JHU 1883/1926, understood Peirce’s ideas concerning the theory and philosophy of logic perhaps better than anyone else of his contemporaries. Their correspondence lasted until 1904. Defended Peirce’s algebraic approach against the Peano-Russell formalisation of logic until her death.

On Peirce’s teaching: “He had all the air...of the
typical philosopher who is engaged, at the moment, in bringing fresh truth by divination out of some inexhaustible well. He got his effect not by anything that could be called an inspiring personality, in the usual sense of the term, but rather by creating the impression that we had before us a profound, original, dispassionate and impassioned seeker of truth. In fact, so devious and unpredictable was his course that he once, to the delight of his students, proposed at the end of his lecture, that we should form (for greater freedom of discussion) a Metaphysical Club, though he had begun the lecture by defining metaphysics to be “the science of unclear thinking.”” (CLF, 1916).

CSP to CLF (Thanksgiving 1902): “It gives me joy that you are to lecture logic at the Johns Hopkins. But, oh, you will not have such a wonderful and charming a class as I had, especially the first year.”


“MR. MARQUAND (appointed to speak against the Doctrine of Limits) attacked both the statement and the proof of the doctrine as given by Dr. Whewell” (JHUC 2)

A.M. (1853-1924), Princeton Class of 1874, Professor of Art History and after 1905 Chairman of the Department of Art and Archaeology, was appointed the first director, a position he held until his retirement in 1922. Ph.D. in Philosophy in 1880 JHU supervised by Peirce on the logic of Philodemus. Returned to Princeton in 1881 to teach Latin and logic.

Right: Marquand machine displayed all the valid implications of a simple logical proposition by using an arrangement of rods and levers, catgut strings and spiral springs. Prompted by Peirce’s 1887 letter, he later diagrammed an electrical circuit for his machine, the first known design for an electric logic machine.

“The reading of these papers prompted questions and suggestions and discussion. The Club adjourned at half-past 10 o’clock.” (MB)

Second meeting, 11 November. 12 persons present.

PRINCIPAL PAPER (max. 45mins):
7. (1.) Questions Concerning Certain Faculties Claimed for Man. C.S. Peirce. FACULTY

“Questions concerning some faculties claimed for man” (MB)

“These questions related to the hypothesis of intuitive faculties, against which it was maintained that we have a variety of facts, all of which are most readily explained on the supposition that we have no intuitive faculty of distinguishing intuitive from mediate cognition; that there is no necessity of supposing an intuitive self-consciousness, since self-consciousness may easily be the result of inference; that we have no intuitive power of distinguishing between the subjective elements of different kinds of cognitions; that there is no reason for supposing a power of introspection, and consequently the only way of investigating a psychological question is by inference from external facts; that every thought must be interpreted in another, or that all thought is in signs; that cognition arises by a process of beginning, as any other change comes to pass. (The views here given have also been presented by the author of this paper in the Jour. of Spec. Philos. Vol. II.)” (JHUC 2)

Minor communications (max. 20min):

“On the determinate form of the copula” (MB)
“Several advantages were pointed out which arise from the assumption of copulas with definite meanings.” (JHUC 2)

**Third meeting, 9 December.**

**PRINCIPAL PAPER:**

“Reflex action was considered to be the transformation of a sensory impression into a motor impulse. The factors of sensitive surface, afferent nerve, elastial garylian, afferent nerve [sic.] and active tissue were discussed separately and in their relations to each other. … Several experiments were made upon frogs, some of which were partially, others wholly deprived of their brains, in order to show the complicated coordinated and purposeful though volitionless nature of their reflex actions. … The steps in the process whereby the mind replaces its doubts and reaches its beliefs were argued to be analogous to those in the reflex action of a brainless frog in removing frogs muscular action an initiating substance from the sensitive part” (MB)

**E.M.H.** (1850-1922), PhD in Biology, JHU (H.N. Martin, supervisor, Hartwell also G. S. Hall’s student), appointed Instructor in Physical Culture at The Johns Hopkins University in 1882.

“Edward Mussey Hartwell should be considered one of the forefathers of physical education in the United States for his contribution toward defining the profession. . . . To such a task Hartwell brought an unusual insight and open-minded sensitivity, bolstered by a considerable formal education.” (Ellen Gerber)

http://hhs.sagepub.com/cgi/reprint/22/1/37.pdf

Minor communications:
11. The Ethics of Belief. David Stewart. [?? Unidentified person]

“This paper discussed the grounds of our belief in the supernatural and pointed out the dishonesty of treating as positive fact dogmas which are still matter of doubt or dispute” (MB)

[Mathematician William K. Clifford, Sylvester’s collaborator etc., had presented the famous paper bearing this title in 1877 – the one which W. James equally famously attacked.]

1880

**Fourth meeting, 13 January. 11 persons present.**

**PRINCIPAL PAPER:**
12. (3.) Translation of Philodemus on Inductive inferences. Allan Marquand.

“Mr. C. S. PEIRCE remarked upon the value of this treatise to the history of Inductive Logic and Epicurean Philosophy.” (JHUC 3, p. 34)


**Fifth Meeting, 12 February. 14 persons present.**

**PRINCIPAL PAPER:**
Minor communications:

Sixth Meeting, 9 March. 16 persons present.

PRINCIPAL PAPER:
17. (5.) On Kant’s Critic of the Pure Reason in the Light of Modern Logic. C.S. Peirce.
“Mr Peirce compared Kant’s solution of the problem ‘How are synthetic judgments a priori possible?’ with the solution given by modern logic of the problem ‘How are synthetic judgments in general possible?’ He showed that the reply which Kant makes to the former question has its analogue with reference to the latter. This analogous answer to the second question is true indeed but is far from being a complete solution of the problem. On the other hand, the solution which modern logic gives of its question may be successfully applied to Kant’s problem; but this does not enable us to discover the origin of the conceptions of space and time. …” (MB, cf. JHUC)

Minor communications:
“The main characteristics of Schroder’s system, its dualistic arrangement, was pointed out as having been exhibited by Mr Peirce 10 years before. Allusion was also made to the fact that the definition of logical addition which Schroder adopts from Robert Grassmann, had been made by Prof. Jevons in 1864, and by Mr Peirce (independently) in 1869.” (MB)

Discussion by C.S. Peirce.
[Peirce, who had read Schröder’s 1877 paper in 1879, corresponded with Schröder here and again beginning in 1890, cf. Nathan Houser 1990.]


Wikipedia writes that “Stringham is perhaps most notable as the first person to denote the natural logarithm as ln(x) where x is its argument: “In place of ’log we shall henceforth use the shorter symbol ln, made up of the initial letters of logarithm and of natural Napierian.”

[But this is rather silly remark as Stringham was the first to present 4-dimensional figures, illustrations of the hypercube, etc. remarkable findings already in his PhD dissertation. In these, he was influenced by J. B. Listing’s topology and W. E. Story’s works. Stringham’s approach seems to have inspired Peirce. Later W.I.S. worked with Klein in Germany.]

19. “A paper by B. C. Burt on the first part of Spinoza’s Ethics was deferred for lack of time. (Left the University, so paper was read at next meeting.) Mr Peirce then tendered his resignation as President of the Club” (MB) [Peirce leaves for Europe; Burt’s paper seems not to have been read at all.]
Seventh Meeting 15 April. G.S. Morris elected President. 10 persons present.

PRINCIPAL PAPER:
20. (6.) Leslie Stephen on Causation. Prof. George S. Morris. Faculty. The first presenter who is actually not Peirce’s student.

G.S.M., (1840-1889), Hegelian metaphysicist, educator. Royce’s supervisor, Dewey’s mentor. Studied under Trendelenburg 1866.

Resigned JHU 1884 after losing the philosophy chair to G. Stanley Hall, then Professor, Clark University. Took Dewey with him.

“modest and retiring…an esthetic soul, who loved philosophy because of the personal satisfaction he derived from this study.” (Am.J.Psych. 28, 1917)

Minor communications:
21. “Mr W. Nichols read a letter on Hegelianism in St Louis from Mrs E.M. Mitchell of the Hegel Club of that city.”

22. Mr W.T. Sedgwick presented a communications on a Problem in Mental Physiology.

Eight Meeting, 11 May. 7 persons present.

PRINCIPAL PAPER:
23. (7.) The Logic of the Epicureans. Allan Marquand. (Published in the Studies in Logic, 1882.)

Minor communications:
“the formulae given by Mr Charles S. Peirce in his lectures on Logic for the multiplication of two statistical numbers were extended to the multiplication of any number of such numbers, and further formulae for subtraction and division were reached” (MB)

25. “Mr W. S. Pratt presented a translation of a lecture of Dr Rudolf Maennel of Jena, upon ‘Was ist nach Kant schön?’”
[Rudolf Maennel: “Was is nach Kant schön?,” 14 pages, 1872]

“Geo. S. Morris began a review of Prof Wundt’s Logik (Vol I), but the hour for adjournment having arrived, the paper was postponed.” (MB)

Ninth Special Meeting 20 May. 11 persons present.

“There are three possible ways of studying human thought…” (MB, 5 page summary, JHUC). [Cf. The Life and Thought of Josiah Royce (John Clendenning, p. 87-) for an analysis of this paper.]
27. W.S. Pratt read a paper prepared by a friend on “Wagner’s Theory of Music as an Art”.

“… Psychological laws are therefore not logical laws. Psychology is a natural science, logic (along with ethics and aesthetics) a mental science. The analogy for a final interpretation of all existence is to be sought in mind rather than in nature.” (MB)

Tenth Meeting, 12 October. B.I. Gilman Chair. 6 persons present.

PRINCIPAL PAPER:
29. (9.) Hume’s Doctrine of Causation. Benjamin Chapman Burt.

B.C.B. (1852-1915) translated books on logic and metaphysics. He published A History of Modern Philosophy, 1892, in which he mentions “Peirce (Sceptical?)”. “As I am correcting the proofs, I notice that Mr. B.C. Burt, in his new History of Modern Philosophy, sets me down as a skeptical, though doubtfully. There are a good many inaccuracies in the work. This was inevitable in a first edition. But the ingenious plan of the book admirably adapts it to the wants of just that class of students who cannot understand that no repertory of facts ever can be trusted implicitly.” (Peirce, “Reply to the Necessitarians,” 1893)

Burt said to Wenley (G.S. Morris’s biographer) that when Morris was at JHU “The general atmosphere did not, to me, seem very hospitable towards philosophy. The ‘scientific’ spirit was too strong. … I doubt if philosophy has ever obtained a real foothold at JHU to this day. However, Professor Morris had admirers and friends in the JHU faculty, I believe. He certainly was fond of meeting others at the JHU Club, where they could smoke together, — he was no prig, gentle and courteous though he was always.” (Peirce, “Reply to the Necessitarians,” 1893)

Minor communications:
30. Galton’s psychological observations. Mr Marquand. (“Psychological Inquiries”, JHUC)

31. “B.I. Gilman then presented a critical estimate of an article by Prof. Wm James, entitled “Great men, great thoughts and the environment.” (MB)

[Peirce returns from Europe early, re-elected as chair.]

Eleventh Meeting, 8 November. Chair Peirce. 14 persons present.

PRINCIPAL PAPER:
(partly deferred to the next meeting)


[Peirce attributed to the genius of O.H.M. two major discoveries: the invention of the basic proof transformations (introduction on odd and elimination on even) and the interpretation of quantifiers in multiple dimensions (incl. time, cf. the modern idea of many-sorted quantification, or indexicals as mappings from contexts to values the universes of discourse).]

*Delta Upsilon Quarterly* (1889, p.261, Obituary attach.): “You ask me my opinion about Mr. Mitchell as a mathematician. He has been a most diligent and intelligent student in my class... in some work which he has recently been engaged upon, he has taken me completely by surprise. ... I should have been very glad, not to say proud, to have been myself the author of them. I look upon Mr. Mitchell as belonging to the same class of intellect as Franklin, Craig and Miss Ladd...” (J.J.S., March 3, 1881) (Nation April 11, 1889): “His paper [“A New Algebra of Logic”. SiL] was a work of great originality, and we venture to predict that it will hereafter be found to be the most valuable contribution that has yet been made to that subject” (by CLF?). CSP to CLF (Dec 8, 1903): “a little bit exaggerated [your remarks] were, but not too much for an obituary; and I am deeply glad you said them. For certainly that paper of his has greatly helped me.”


“The machine presents to view three flaps containing the two premises and conclusion of a syllogism, as in the diagram. Thus from Barbara, contraposing by negation, we have the following variations.” (JHUC 7, p.84)

\[
\begin{array}{c}
\begin{array}{c}
A \rightarrow B \\
(1)
\end{array}
\end{array}
\]

\[
\begin{array}{c}
\begin{array}{c}
B \rightarrow C \\
(2)
\end{array}
\end{array}
\]

\[
\begin{array}{c}
\begin{array}{c}
A \rightarrow C \\
(3)
\end{array}
\end{array}
\]

\[
\begin{array}{c}
\begin{array}{c}
\tilde{B} \rightarrow \tilde{A} & A \rightarrow B & \tilde{B} \rightarrow \tilde{A} & A \rightarrow B & \tilde{B} \rightarrow \tilde{A} & A \rightarrow B & \tilde{B} \rightarrow \tilde{A} \\
(1) & (2) & (3) & (4) & (5) & (6) & (7) & (8)
\end{array}
\end{array}
\]

\[\vdash A \rightarrow C, \vdash A \rightarrow C, \vdash A \rightarrow C, \vdash A \rightarrow C, \vdash A \rightarrow C, \vdash A \rightarrow C, \vdash A \rightarrow C.\]

**Twelfth Meeting, 14 December. Chair Franklin. 9 persons present.**

**PRINCIPAL PAPER:**
35. (10.) *On Operations in Statistical Number, with applications to the theory of probabilities*. B.I. Gilman. (cont.)


“The secretary then read a letter from Mr Peirce…” Peirce noting having “received papers from Wundt, Schröder, J.J. Murphy, Venn, Jevons, MacColl, and others on various logical and psychological subjects.” (MB)

1881

**Thirteenth Meeting, 18 January. Chair Peirce. 16 persons present.**

**PRINCIPAL PAPER:**
37. (11.) *On Wundt’s Algebra of Logic*. Christine Ladd.

“Mr Peirce suggested an extension of the algebra by the addition of a new copula.” (MB)

38. *A Point of Logic Notation*. Fabian Franklin. Peirce’s student.
F.F. (1853-1939). PhD Mathematics JHU 1880. Wrote a biography on D.C. Gilman. Mention’s Peirce once, on page 239: “…the singular genius of Charles S. Peirce was made a source of remarkable intellectual stimulation in the university through the establishment of a lectureship which he filled along lines quite peculiarly his own. In the only other instance which shall be cited, Mr. Gilman’s sympathetic insight effected a service in which his interest was perhaps equally divided between the question of promoting the University’s work and that of helping to relieve the burdens of struggling genius and noble manhood.” But Gilman makes no mention of Peirce in his 1906 The Launching of a University. Abraham Flexner wrote another biography (Daniel Coit Gilman, Creator of the American Type of University), in 1946 and mentions, once, how “Peirce edited an important volume, entitled Contributions to Logic [sic., Studies in Logic]” (p. 90).

Fourteenth Meeting, 8 February. 16 persons present.

PRINCIPAL PAPER:

34. (27.) Inhibition of Mental Action. William Thompson Sedgwick.


Sedgwick became Lowell Institute’s curator and arranged Peirce to deliver eight lectures there in Nov-Dec 1903 (The Lowell Lectures “Some Topics of Logic Bearing on Questions Now Vexed”). Had important correspondence with Peirce. After the second Lowell lecture Sedgwick wrote to congratulate Peirce on the “marked success” of the lectures. His account of the lectures was that Peirce had a “very pleasant style and a good voice”, adding that “knowing, as you do, how to express your ideas, your lectures are naturally clear and acceptable” (WTS to CSP, December 1, 1903).


D.L.B. (1858-1907). He also presented also in 1880 “On Karl Marx and the International” at the Historical and Political Science Association of JHU, later lectured on the labour question, and became a corporation lawyer.

Fifteenth Meeting, 8 March. 16 persons present.

PRINCIPAL PAPER:
Synopsis in MB & JHUC 11.

M.I.S. (1856-1946), a social theorist, organizer and activist. A prolific writer, speaker and pamphleteer, he wrote a number of books on social and political theory and several works of fiction. He was an outspoken anti-imperialist, anti-capitalist and a tireless promoter of socialism, and is viewed by many as an anarchist. PhD in political economy: “The Ethics of Idealism, as Represented by Aristotle and Hegel.” He later tried to organize a “social university” attempted, without success, to return his Ph.D. to Johns Hopkins and to have
his name “erased from the list of graduates of the university.” He “devoted most of a long life to trying to help the jobless and other disadvantaged.”

MIS is mentioned in WJ’s Pragmatism, lecture 1: “M. I. Swift on the optimism of idealists. Pragmatism as a mediating system.”: “I find a fine example of revolt against the airy and shallow optimism of current religious philosophy in a publication of that valiant anarchist writer Morrison I. Swift. Mr. Swift's anarchism goes a little farther than mine does, but I confess that I sympathize a good deal, and some of you, I know, will sympathize heartily with his dissatisfaction with the idealistic optimisms now in vogue.” Lawrence Stone, The Anatomy of an American Radical: Morrison Isaac Swift – A biography (senior thesis, Brandeis University, 1980).

Synopsis in MB & JHUC 11.


Sixteenth Meeting, 1 April. 16 persons present.

PRINCIPAL PAPER:
38. (14.) On Relations between Sensations, by C. S. Peirce.

“The probability of an {induction/hypothesis} is increased or diminished, in general, by increasing or diminishing the number of {subjects/predicates} compared. Since the order of reasoning in induction is case, result, rule, and in hypothesis precisely the reverse, rule, result, case; it follows that what appears as {induction/hypothesis} when time is reckoned positively, becomes {hypothesis/induction} if we conceive time to be reckoned negatively.” (JHUC 11).

E.W.D. (1857-1918), PhD JHU 1884, SV Sylvester, also 1884 under Cayley, Professor of Mathematics, University of Nebraska.

“the deeper one enters into the spirit of Peirce’s teachings the more logically and philosophically satisfying, the more complete and harmonious and inclusive they seem to be.” (Davis, p. 56, “Charles Peirce at Johns Hopkins”, Mid-West Quarterly 2, 1914, 48-56)

Letter to Peirce, no date (1898): “I see by the current number of the nation that you contemplate an extensive work on the principles of philosophy. I desire to encourage you in the undertaking for your ideas have to me been among the most valuable I have received. There are some others of your pupils at the Johns Hopkins who have a like feeling.” CSP to EWD April 9, 1898: “I dare say you expect to do far better than I have done. I hope you may.”

Highly appreciated textbooks: An Introduction to the Logic of Algebra (1890); Calculus (1913).

41. Straight Lines and Parallels, By James Bates Peterson

J.B.P. (1842-1912), an employee in a carpet-tack factory in Satucket, he was invited by WJ to study at Harvard. He published philosophical papers like “Empirical Theory of Causation,” “Kant’s Theory Of The ‘Forms Of Thought’,” “The Forms of the Syllogism.” “Some philosophical terms,” Monist 15 (1905, same
issue with “What Pragmatism Is” and “The Issues of Pragmatism”). CSP, most interested in philosophical terminology, then published “Mr. Peterson’s Proposed Discussion,” The Monist 16 (Jan 1906): “I hope Mr. Peterson’s suggestion may bring a whole crop of fruit.”

From the obituary (“Old Philosopher Dead”): “a philosophical writer and friend of the late Prof. William James of Harvard; the late poet, Richard Watson Gilder, and Prof. Allan Marquand of Princeton… first disclosed his intellectual aspirations to Prof. James when as an employee in a Massachusetts tack factory, he wrote the latter asking suggestions about a course of philosophical reading. On the request of Prof. James he went to Harvard to study under him. Mr. Peterson, who was without financial means, was practically supported by Prof. James. Later he went to Johns Hopkins for further courses, where he became associated with Prof. Marquand, who also contributed toward his support. He came to New York in 1880 in the interest of the late Mr. Gilder, who assigned him to write articles for The Critic, which Miss Gilder edited. At the same time he contributed to The Philosophical Journal and other periodicals. For several years Mr Peterson had been at work on a magnitudinous book on philosophy never published.”

Seventeenth Meeting, 10 May. 18 persons present.

PRINCIPAL PAPER:

42. (15.) Logical Machines. Allan Marquand.
“Cunynghame’s Syllogistic Cylinder, Stanhope’s Demonstrator and the machines of Jevons and of Venn were described. Logical cards were offered as a substitute for the Logical Slate or Stamp. Diagrams were exhibited for a four-term machine resembling that of Jevons in having thirty-two rods raised or lowered by sixteen keys. It differs in requiring only three operations instead of five, in having a sliding face with slits so arranged as to exhibit a complete analysis of the combinations, in dispensing with springs and levers, and in other particulars of minor importance.

A marked improvement was made upon the machine of Mr. Venn. In place of circles, ellipses, etc., rectangles are used to represent the “compartments” of the universe. A square wire frame work with a wire dividing it into two parts, if allowed to fall on a square surface of the same size, will divide it into two compartments, distinguished as A and a. A similar frame work falling at right angles to the first will divide each of these, giving the four compartments AB, Ab, aB, ab. A 3rd and 4th character each require frame works with two dividing wires; a 5th and 6th character require four such wires; in general, counting characters by couples, each of the nth couple will require a frame work with 2n-I dividing wires. On this principle machines for any number of logical terms may be constructed much more easily than has yet been supposed.” (JHUC 11, p.150)

43. The External World. J.B. Peterson.
“Berkeley and his followers deny that we have any knowledge except of the phenomena of our own minds, and maintain that our belief in a world external to ourselves is an illusion. But this theory is liable to two objections, either one of which is fatal to it. In the first place, it belies the testimony of consciousness, which affirms that material objects are not within the mind but without it. Secondly, it contradicts itself, since it assumes the human body and its sense-organs as external realities. The question whether there is a world external to ourselves is one that ought never to have been raised; but the question what we know of that world and how we know it, is one of the highest importance, and the knowledge is probably given us in the first instance, in the consciousness of our own limitation.”

44. On the Validity of Induction. B.I. Gilman.
“Three themes of the subject were referred to and criticized viz.: - (1) Laplace’s principle of inverse probabilities – (2) Mill’s doctrine of the uniformity of nature – (3) Mr Peirce’s material view of Probabilities and the adaptation of the mind to the universe.” (MB)

[June – October 1881
No data.]
Eighteenth Meeting, 15 November. Chair Peirce. B.I. Gilman secretary (numbering of talks end here) El. Peirce as President. 10 persons present.

PRINCIPAL PAPER:
45. (16.) Theories of Induction. B. I. Gilman.
“... The concluding part of the paper embraced a description of the theory of Probable Inference proposed by Mr. C.S: Peirce. The paper was follower by some remarks upon the subjects from Mr. Peirce.”

Minor communication:
46. English Deism and the Philosophy of Religion. G.S. Morris.
“... At the conclusion of this paper Mr. Peirce mentioned having just received and looked over for the first time a copy of Prof. Schlötel’s work on Logic in regard to which the author had last summer accused him of plagiarism.” (MB, cf. SiL p.203)

[November-December 1881
No data.]

1882 (1881 sic., MB)
Nineteenth Meeting, 17 January. Chair Peirce. X persons present.

PRINCIPAL PAPER:
47. (17.) Edward von Hartman. Dr G. Stanley Hall. FACULTY
“Johns Hopkins’s first professorship in philosophy: A critical pivot point in the history of American psychology” by Christopher D. Green: “The first professorship in philosophy at Johns Hopkins University was contested in the early 1880s by two of the most prominent and influential scholars in America: Charles Sanders Peirce and George Sylvester Morris. A third figure also vied for the position, although he was much less well known at the time: Granville Stanley Hall. Through a series of unexpected circumstances, Hall ultimately won the professorship and then used it to leverage an extraordinary career that included his opening the first American research laboratory in psychology, establishing the American Journal of Psychology, founding the American Psychological Association, and profoundly affecting the character of developmental psychology in America.”

“Why the appointment, for which all of them [Peirce, Morris, Hall] had been considered, fell to me I was never able to understand unless it was because my standpoint was thought to be a little more accordant with the ideals which then prevailed there.” (Life and Confessions, 1923). [Today, too, the philosophy positions are lost to psychology & education studies…]

Illustrations “one of the most important of American contributions to philosophy” (GSH 1879). Remained in good terms with Peirce throughout: GSH to CSP (Jan 28 1893): “I am drawing up … a history of psychology in this country … Psychology to be interpreted in the largest possible sense, to include Logic, Aesthetics, history of Philosophy, Metaphysics, etc.” … please give me titles and publications and digests of your works and
suggestions. (GSH to CSP Feb 27 1900): “indeed there are few people in the country or world whose good opinion on such matters I value so highly.” In preparing Hall’s papers his secretary comes across material on Peirce’s logic of science and contacts Peirce for references to his published books on those (Jul 23, 1900). (GSH to CSP Sep 1, 1900) “like all your friends I felt very anxious to have your scheme of publication put through and subscribed for everything you should publish.”

Minor communication:


Twentieth Meeting. 14 February. Chair Gilman (Peirce absent). 7 persons present.

PRINCIPAL PAPER:

49. (18.) On a Logical Algebra. O.H. Mitchell. (conclusion deferred)
Published in SiL as “On a New Algebra of Logic”.


FACULTY

“This paper was an examination of the evidence, brought forward by Mr. Murphy, in support of the proposition that there are many cases in the organic world where structure has been laid down as a preparation for function, before the function could be brought into action. If such structures can be shown to exist, natural selection or the survival of the fittest will not explain them, and they can only be accounted for under the assumption of a directive force or agency; this power is believed by the author to be an organizing intelligence. Murphy’s argument is defective in two essential points: in the first place, the imperfection of our knowledge in regard to the functions of certain structures in the lower animals is taken as equivalent to a demonstration that such structures perform no functions; and in the second place, the conditions resulting from the cessation or transformation of function are not considered. It is absurd to maintain that a structure performs no function because we cannot perceive it, for it has often happened that structures which upon superficial examination appeared useless, have been found to be in reality of vital importance to the organism. On the other hand, there are countless cases of structures which were once functionally active but have now lost their usefulness. Looking into the particular biological evidence introduced by the author of “Habit and Intelligence” we find that some of it is clearly opposed to known facts. The statement, for example, that the abdomen of the Zoea and the chord of the Ascidian larva are structures devoid of function simply shows that the author cannot have studied the uses of these structures in the living Zoea or Appendicularia. In other cases, as in considering the metamorphoses of Crustacea, Mr. Murphy has overlooked the fact that the present structure of an organism has been determined in accordance not only with the present, but also with all past conditions of life, and that uniformity of conditions at present does not imply uniformity in past time. The cases of “structure in anticipation of function” brought forward by the author as proof of a formative agency in evolution are in every instance open to a quite different interpretation, and the validity of the entire argument based on this evidence must therefore be seriously questioned.” (JHUC)

E.B.W. (1856–1939), a pioneering American zoologist and geneticist, graduated Yale 1878. PhD JHU 1881. President of the American Association for the Advancement of Science in 1913.

51. A Review of Bowne’s “Metaphysics”. Benjamin Eli Smith. FACULTY

“The value of this work lies mainly in the fact that it directs attention to the philosophers Herbart and Lotze who are practically unknown in this country, but whose systems represent the most important phase of German speculation… Psychology cannot indeed determine the logical validity of a metaphysical conception but in many cases it supplies the data necessary for this determination.” (MB)
B.E.S. (1857-1913) A close relative of Roswell Smith, the founder of the new born Century Company, who proposed in 1882 to adapt the Imperial Dictionary to American needs. B.E.S. became Assistant Editor of Century Dictionary, Editor of CD Supplement. Invites Peirce’s contributions (probably as early as 1882), Peirce writes up to 16,000 definitions.

**Twenty-first Meeting, 14 March. Chair Peirce. 9 persons present.**


“This paper considered a system of propositions in which a universe of time was treated in conjunction with the universe of class terms and gave the algebra of such propositions.” (MB) [Ideas of diagrammatic logic begin to emerge, see Peirce to OHM Dec 21, 1882.]

Minor communication:

**Twenty-second Meeting, 25 April. Chair Peirce. 8 persons present.**

**PRINCIPAL PAPER:**


**Twenty-third Meeting, May. Chair Peirce. 5 persons present.**

**PRINCIPAL PAPER:**
55. (19.) Consciousness and Reality. M. I. Swift.


[Meanings of distributive ‘any’ in plural and singular contexts.]

_September 1882_ Peirce gives a general lecture at JHU on the study of logic (W4, p.380): “a man needs to be more than a mere specialist; he needs such a general training of his mind, and such knowledge as shall show him how to make his powers most effective in a new direction. That knowledge is logic.”

**Twenty-fourth Meeting, 17 October at JHU.**

No communications.

“A preliminary meeting of the Club was held. … Owing to the absence of the President little was done. Prof. Geo. S. Morris took the Chair and explained to those present the objects of the society and the methods of its work. Upon motion of Mr. Cattell, Mr. Jastrow was asked to contact with the President and make arrangements for the next meeting of the Club.” (MB)

**Twenty-fifth Meeting. 14 November. Chair Pierce [sic.], Cattell sec. 7 members present.**

“The president made some opening remarks, explaining the object of the club, and mentioning as suitable subjects for treatment the data of ethics and spurious propositions.”


Judge Samuel Tyler (1776-1812) “wrote on philosophical subjects” (MB)

C.T.M. (1864-1938), a “cultured and handsome” Lutheran pastor, was later “ousted by church for love of girl.”
El. President G.S. Morris, Cattell sec. Jastrow third member of the exec. committee. “After some discussion the meeting adjourned.” (MB)

Twenty-sixth Meeting. 12 December. Chair Morris. “23 gentlemen present”.

PRINCIPAL PAPER:
58. (20.) University and Philosophy. G. S. Morris.


GSM, March 1883, JHUP: “Memorandum respecting the work of the Philosophical Seminary, Sep-Dec 1882. Work was directed to the science of knowledge…Mr. Dewey’s paper on Empedocles embodied an ingenious attempt to find, in the fragments of doctrine attributed to the philosopher, justification for a spiritualistic interpretation of his maxim, ‘Like is known by like’. …”

[So while Peirce was largely absent, GSM seems to have run his own philosophical seminary during this semester]

60. Review of Recent Philosophical Journals. J.McKeen Cattell.
“Remarks were made by Mr. Rogers and Mr. Gilman.” (MB)

J.M.C. (1860-1944), psychologist, first professor of psychology in the United States at the University of Pennsylvania, long-time editor and publisher of scientific journals and publications, most notably the journal Science. Under Wundt, Cattell became the first American to publish a dissertation in the field of psychology (Psychologische Untersuchungen (Psychometric Investigation), University of Leipzig, 1886). Cattell tried to explore the interiors of his own mind through the consumption of the then-legal hashis. President of the American Psychological Association in 1895. Well known for his involvement in creating and editing scientific journals, Cattell was so involved in owning and publishing journals that his research productivity declined. He founded the journal Psychological Review in 1894 along with James Mark Baldwin. He also acquired the journal Science and, within five years, made it the official publication of the American Association for the Advancement of Science, 1895-1900.

[Commented on Peirce & Jastrow. Peirce corresponds with Cattell in 1903 on the Syllabus of his 1903 Lowell Lectures of which Cattell wants to print the classification of the Sciences section in the new Journal of Philosophy, Psychology and Scientific Methods (Cattell to CSP Dec 28, 1903). Cattell had just resigned from editorialship for G. H. Putnam, and the latter fails to be convinced in the importance of the publication of Peirce’s Lowell Lectures. The failed publication of the Lowell Lectures, resulting from mere contingent factors and communication, may have been one of the most important determinants for the course of modern logic in the 20th century becoming alienated from pressing philosophical concerns that occupied Peirce in those lectures.]

1883
Twenty-seventh Meeting, 12 January. Chair Morris. “At the invitation of Pres. Gilman the club met at his house. 17 members present” (MB).

PRINCIPAL PAPER:
To record an impression of Charles S. Peirce as a teacher is a grateful opportunity. A deep conviction of the significance of the problems presented and a mastery of the intellectual processes were his sole and adequate pedagogical equipment. The logical quality was the dominant trait of his thinking; rectitude became a rational virtue. … he had the pedagogic gift to an unusual degree, had it by dower of nature, as some men handle a pencil and others the bow of a violin.” (J.J., “CSP as a Teacher”, 1916)

“On small differences in sensation” (with CSP 1885), the first real randomized blinded experiment. JJ assumes reputation as “America’s first pop psychologist”.

62. Prof. Morris gave some account of the life and writings of Henry James. Remarks on both of the above subjects were made by Mr. Pierce. Mr. Dewey spoke on the writings of J. H. Green.” (MB). “The Philosophical Work of Henry James, Sr. G.S. Morris.” (JHUC)

63. Writings of J.H. Green. John Dewey. (JHUC)

Twenty-eighth meeting, 13 February. Dr. Hall el. President. 21 members present.

PRINCIPAL PAPER:
64. (22.) A Study of Reaction Time and Attention in the Hypnotic State. G.S. Hall.

65. Mr. Joseph Cook and the Philosophy of Lotze. J.M. Cattell.


A.H.T., (1856-), BA Williams College 1877, Ph.D. Strasburg University. Professor of English, Ripon College (1884-1893), University of Chicago Assistant professor (1893-1907), Dean (1895-1900), full professor (1914-1925). Archives at University of Chicago Library.

Questions on Shakespeare, 1918, a syntactic and semantic and logical analysis of Shakespeare’s language.

“Mr. Cattell spoke on ‘Mr. Cook of Boston’. Remarks on this subject were made by Mr. Pierce and Dr. Hall.”(MB)

Twenty-ninth meeting, 13 March. Chair Hall. 22 members present.

PRINCIPAL PAPER:
67. (23.) The Development of Sight in the Lower Organisms. Newell Henry Martin. FACULTY

“Martin’s emphasis on methods and on results echoes convictions expressed by Hopkins philosopher Charles Saunders Peirce (1838-1914) as well. Peirce stressed that “This is the age of methods; and the university which is to be the exponent of the living condition of the human mind, must be the university of methods” (Hawkins, 1960, p. 223). Science and philosophy should work closely together, Peirce declared, and he set about facilitating that communication. He invited students and faculty to gather around his open fire for discussions in
those early years when the Hopkins environment represented, as philosopher Josiah Royce put it, a “dawn wherein 'twas bliss to be alive” (French, 1946, p. 45). The community was small and perhaps Martin and his students actually joined Peirce for those discussions. Martin and Peirce were reportedly good friends (Feibleman, 1946, p. 21). Whether Martin was directly influenced by Peirce, or whether they both responded to similar influences in the Hopkins setting generally, their ideas about what science should do reflect closely parallel commitments. Unfortunately, Peirce suffered some emotional instability, according to his critics, and for a variety of reasons was not reappointed at Hopkins after 1883-1884. This despite reassurances from Gilman and Peirce’s expectation that he would be kept on (Hawkins, 1960, p. 195). There is no hint that any other philosophers achieved such sympathy with the biologists as Peirce had, with his pragmatic emphasis on methods and results.

  http://www.archive.org/stream/circulats02univgoog/circulats02univgoog_djvu.txt

“Remarks were made by Mr Pierce [sic.].” (MB)

Thirtieth Meeting, 10 April. Chair Hall. 8 members present.

PRINCIPAL PAPER:

70. A Note on Mechanical Logic. Joseph Jastrow.
“Mr Pierce [sic.] who was to have read the principal paper could not be present. Mr. Dewey read a paper on ‘Hegel and the Theory of Categories’. Mr. Jastrow presented a Note on Mechanical Logic. Remarks were made by Dr. Hall and Mr. Gilman.” (MB)

[Peirce divorces Zina on 24 April. Marries Juliette 30 April. Both sail to Europe 2 May.]

Thirty-first Meeting. 8 May. Chair Hall. 22 members present.

PRINCIPAL PAPER:
71. (25.) Rhythm in the Classic Languages. Basil Lanneau Gildersleeve. FACULTY
B.L.G. (1831-1924), PhD 1853, Professor of Greek, Virginia, JHU.

BLG on JHU: “The greater freedom of action, the larger appliances, the wider and richer life, the opportunities for travel and for personal intercourse have stimulated production and have made my last 14 years my most fruitful years in the eyes of the scholarly world.”

“‘useful’...were better banished from the university vocabulary.” (Baltimore Evening Bulletin, Feb 23, 1877)

Peirce’s travel companion to Europe spring 1880. “[Peirce] has been kind to me in his way, and if he were always as he can be sometimes, he would be a charming companion.” (W 4, xxxix)

72. Wundt’s ‘Logic of Chemistry’. Ira Remsen. FACULTY

I.R., (1846-1927), a chemist who, along with Constantin Fahlberg, discovered saccharin. The second president of JHU 1901-1913 and continued as professor of chemistry.
In his inauguration speech 22 Feb 1902, he pays tribute to Peirce, as “Generous encouragement was given to the publication of important treatises, like…the studies in logic of Mr. Peirce and his followers”. (JHUC XXI, p.38)

D.C. Gilman would never make such a mention of Peirce during his presidency which lasted until 1902. In Gilman’s book on JHU, there is no mention of Peirce!

EP extended headnote: 1902 “on November 1, Peirce wrote to the Secretary of the National Academy of Science, Ira Remsen, about his intention to attend the November meeting in Philadelphia “to present a long paper ‘On the Logic of Research into Ancient History.’” This seems to be the first of at least the three occasions in which Peirce is contacting his former students and colleagues now in high positions (Remsen, Sedgwick, Cattell) to assist him to have a chance to give lectures. CSP corresponds with IR until at least 1906.

From GSM JHU papers: “Metaphysical Club. This organization held its first meeting Oct 28, 1879. Since then monthly meetings have been held. During the four years [until] June 1883 31 such meetings were held, as which were read 72 papers and communications, of which 39 may be classed as major, and the remaining 33 as minor; these papers being presented by 32 different persons. Papers here presented have been published in Princeton Review. Mind. Contributions to Logic [Studies in Logic]. Journal of Speculative Philosophy. [Bibliography follows, listing 56 articles and books by JHU students & faculty]”

[Peirce’s return mid-September. Enrolment down. Ordeal begins.]

Thirty-second meeting, 9 October. Chair Morris. 17 members present.

PRINCIPAL PAPER:
73. (26.) The Philosophical Conception of Life. G.S. Morris.
“Study of the Conception of Life. Remarks were made by Mr. Peirce, Mr. Bruce and Mr. Dewey. Mr. Peirce preferred postponing his paper on ‘a reply to the theory of probability’ to a future meeting.”

74. Galton’s Inquiry into Human Faculty. Joseph Jastrow.
“Remarks were made by Mr. Peirce and Dr. Franklin.”

Thirty-third meeting, 12 November. Chair Morris. 25 members present.

PRINCIPAL PAPER:
“Remarks were made by Mr. Pierce [sic.]. At Mr. Pierce’s [sic.] request, Dr. Franklin presented with his paper” (MB)

76. Mr Grant Allen on Idiosyncrasy. Fabian Franklin.
“Remarks were made by Prof. Morris and Mr. Jastrow. Mr. Pierce [sic.] then read his

77. Reply to Professor Morris on Life. C. S. Peirce (JHUC)

Thirty-fourth meeting, 11 December. Chair Morris. 13 members present.

PRINCIPAL PAPER:
Mr. Peirce, Dr. Harris, Prof. Morris, Mr. Dewey and Mr. Jastrow took part in the discussion.

Minor communications:

79. The Design Argument. Adam Todd Bruce.
Remarked upon by Mr. Peirce.

A.T.B. (1860-1887), Fellow in biology. Peirce remarks on the paper. ATB dies early, his Observations on the embryology of insects and arachnids published posthumously by his friends and professors, the Bruce Fellowship established.


1884
Thirty-fifth meeting, 17 January. Chair Morris. 9 members present.

9 January: “There being no persons present, the meeting adjourned…”

PRINCIPAL PAPER:

“Mr. Peirce, Dr. Franklin, Prof. Remsen, Mr Dewey and Mr Jastrow as well as the President took part in the discussion. Prof. Morris reviewed

82. W. T. Harris’s Philosophy in Outline. G. S. Morris.

Thirty-sixth meeting, 12 February. Chair Hall. 17 members present.

PRINCIPAL PAPER:

83. (30.) The nisus formitivus in sane and insane minds. G. S. Hall.


HHD’s paper was “much discussed” (MB)

H.H.D. (1857-1938), JHU fellowship in biology, 1881, H.N. Martin SV, PhD 1885, G.S. Hall SV. Professor of Neurology, University of Chicago, 1892.

Thirty-seventh meeting, 11 March. Chair Hall. 16 members present.

PRINCIPAL PAPER:


86. The Body as a Spiritual Residence. E.M. Hartwell.

“The president brought before the club some suggestions purposing to unite the various clubs having philosophical interests in connection with the university. [Which?] proposition was [illeg.] and on motion of Mr Jastrow it was agreed that the President should appoint a committee consisting of one member at least, of every club interested, to consider the matter. On motion the meeting adjourned.” (MB)

Thirty-eighth Meeting. 22 April. Chair Hall. 11 members present.

PRINCIPAL PAPER:

87. (32.) Mind as a Social Factor. Lester Frank Ward

“Ward gave the essay as a speech to the Anthropological Society in March 1884… In April he delivered a revised version at the MC of JHU, an institution founded by CSP and other professors at the graduate institution. Just a few years after Ward tried to attend Hopkins to receive graduate education, he was now speaking before an audience of social thinkers that would reshape the ways Americans thought about American politics and social life into twentieth century.” (Rafferty 2003, p.150)


J.R.H. (1852-1941), Fellow of mathematics at Cambridge and professor of New Testament Greek at JHU, 1882–85. [The only other logic text seems to be James Rendel Harris, “The Cretans are always Liars”, Expositor, 1906.]

“both these papers were subject of discussion.” (MB)

“since reading the above paper [long abstract published in JHUC] I find that the relations of the separate moods and figures to which allusion has been made above were given by Mr. Peirce in a paper read before the American Academy of Arts and Sciences in 1867.” (JHUC)

Thirty-ninth Meeting. 13 May. Chair Peirce (Hall absent). 11 members present.

PRINCIPAL PAPER:
89. (33.) Logic of Religion. C.S. Peirce.
“It had special reference to the proofs of the existence of a God.” (MB)

90. The Writings of the Insane. Hugo Steiner.

H.S. (1865-1920), born in Austria, came in the US when he was 9 years old, became a lawyer.

Hall appointed to fill philosophy position as professor of psychology and education. Peirce & Morris leave JHU. Hall presides.

Fortieth meeting, 18 November. Chair Hall. X members present. “The attendance was large” (MB) [to secure vote for Hall’s proposal?]

“Prof. Hall in behalf of the committee which he had appointed last spring suggested that the objects of those intended in philosophical matters would best be furthered by discharging the Metaphysical Club and beginning a new organization as soon as and in such a way as circumstances would permit. On motion of Mr Jastrow this suggestion was put to vote and carried. Prof. Hall then made a few remarks. He called attention to the fact that for the first time the members of the Philosophical Department met in their own rooms. This might be taken as a favourable symptom of the very general interest in Psychology now prevalent. This interest is made evident by the new methods and [illeg.] constantly appearing from the hands of those...
specially devoted to the work and from the many remarks made by colleges and higher schools for instruction competent of giving good representations of these new movements. …”

[Clash between Peirce & Hall seems to have been that over anti-psychologism/psychologism.]


92. On The Magnet, a Fourteenth Century Manuscript of Petrus Peregrinus. C.S. Peirce. PEIRCE’S LAST PAPER
“The work itself is interesting and has some scientific value” (MB)


94. Notice of a recent insanity trial in the current Philadelphia Americae. Mr. Adler

Cyrus Adler (1863-1940), educator, Jewish religious leader and Semitic scholar, author of an autobiography I Have Considered the Days. He quit his law office in September 1883, was registered at JHU at the beginning of October. He was the first scholar to be enrolled in Professor Paul Haupt’s novel Semitic Seminar at the Johns Hopkins University in 1883, immediately after graduation from the College of the University of Pennsylvania. He became the first recipient in America of the degree of Doctor of Philosophy in Semitics, in 1887. He taught Semitic languages at JHU from 1884 to 1893. He was employed by the Smithsonian Institution for a number of years, with a focus on archaeology and Semitics, serving as the Librarian from 1892-1905. He was a founder of the Jewish Welfare Board, and an editor of the Jewish Encyclopedia, and part of the committee that translated the Jewish Publication Society version of the Hebrew Bible published in 1917. At the end of WWI, he participated in the Paris Peace Conference in 1919. His many scholarly writings include articles on comparative religion, Assyriology, and Semitic philology. He was president of the Dropsie College for Hebrew and Cognate Learning 1908 to 1940 and Chancellor of the Jewish Theological Seminary of America. He was also a contributor to the New International Encyclopedia.


“The remainder of the evening was occupied in discussing the methods of psychical research. Prof. Hall, Mr, Peirce, Dr. Franklin, Prof. A Carroll Lewis of Philadelphia, Mr Ayres and others took part in the discussion. So(?) action was taken. On a suggestion by Dr. Hall, the meeting adjourned until a fitting opportunity for further meeting would present itself. The attendance was large and the meeting adjourned at 10:20 P.M.” (MB)

16 December. Chair Hall. 20 members present.
[As this is no longer officially the Metaphysical Club, the numbering is not retained. The Minute Book continues to record the presentations as follows.]

A Case of Visualized Number Forms. George E. de Steiguer


A Case of Contagious Frenzy. John Caldwell Calhoun Newton
J.C.C.N. (1848-1831), a South Carolina native and former Confederate soldier, became a minister in the Methodist Episcopal Church, and eventually first dean of the Biblical Department and third President of Kwansei Gakuin in Kobe, Japan, where he taught Christian thought to Japanese students. Even while engaged in graduate studies under Herbert Baxter Adams (together with Woodrow Wilson and Nitobe Inazo), Dr. Newton served a church in Baltimore, Maryland. It was during this time that W. R. Lambuth was trying to encourage young Americans to join them in mission work in Asia.

Newton’s papers at Duke University: Lecture Notes on Modern Politics from Herbert B. Adams, 1884 (Kobe, Japan), 1884 (74 pages) Box 12 Volume 3094; Lecture Notes on Philosophy and Ethics from Dr. George S. Morris (Kobe, Japan), undated (70 pages) Box 12 Volume 3095; Lecture Notes on “Political Reformers” from Herbert B. Adams, 1884 (Kobe, Japan), 1884 (72 pages) Box 12 Volume 3096; Lecture Notes on Psycho-Physics by G. Stanley Hall, 1885-1886 (Kobe, Japan), 1885-1886 (188 pages) Box 12 Volume 3097; Lectures on Education from G. Stanley Hall, 1885 (Kobe, Japan), 1885 (86 pages) Box 12 Volume 3102; Notes on Philosophy, Notes on Christian Ethics, (John Hopkins University, Baltimore, Maryland and Atlanta, Georgia), 1883-1884; 1930 Box 15 Volume 3161; Notes on Psychology from G. Stanley Hall, (Kobe, Japan), 1884 Box 15 Volume 3163; Psychology Notes from Lectures of G. Stanley Hall, (Kobe, Japan), 1885 Box 16 Volume 3198


Final Causes. A.T. Bruce.

“An interesting discussion ensued in which Prof. Morris, Mr Newton, Dr Franklin and Prof. Hall took part.”

“M. Swift asked that his paper be postponed until the next meeting.”


“a highly interesting account” (MB)


“Prof. Hall postponed his sketch of Psychic Research owing to the lateness of the hour and mentioned that anyone knowing of a good [sensiteer?] would do good service by getting him to come to the laboratory. He also noted that those interested in forming a philosophical reading club to meet him on Thursday evening [at?] 18.” (MB)

1885
27 January. Chair Hall. 24 members present.

The Introspective Method. A. H. Gross.

Prof. Martin made some remarks on this paper.


Remarks were made by Prof. Hall, Mr Jastrow and others.

Demonstration of Logical Machines. Joseph Jastrow.
“There were exhibited the Stanhope Demonstrator, Mr Marquand’s machine for syllogistic [variations?], and two machines of his own. Mr Jevons and other machines were described.” (MB)

The Method of Philosophy. G. S. Morris.
“The paper dealt with the methods of philosophy in relation to those of science in general. The philosophical method was held to be most perfect in Hegel and the essay was part of an introduction to a [forthcoming?] condensation of two of Hegel’s works. Prof. Hall commented on the paper.” (MB)

3 March. Chair Hall. 14 members present.

The Boy in Education. C. H. Levermore.
Prof. Hall, Mr Noyes, Mr Dewey, Dr Story and Mr Jastrow took part in the discussion.

Clinical Study of Mental Diseases. William Noyes. Jr.

W.N. (1857-1915), Physics fellow at JHU. superintendent of the Boston mental hospital, Clinical instructor of mental diseases at Harvard. The author of “Paranoia; a study of the evolution of systematized delusions of grandeur” (The American journal of psychology). He composed composite photographs of his patients. Doctor Noyes was influenced by the work of Jules Séglas (1856-1939), a distinguished protégé in the Charcot circle at Salpêtrière and an authority on functional disorders. He translated Séglas's influential paper on chronic systematic delusion titled, La Paranoïa, délires systématisés et dégénérescence mentale

A certain William Noyes – possibly this one [?] – was among Peirce’s pupils in the Correspondence course (around 1887-89), see W6.515.

Final Causes. M.I. Swift.

“Remarks were made by Dr. Story.” (MB)

Two Psychophysical Studies. G. S. Hall.

In 1885 MC comes to be “merged with psychological seminary, of which no records were kept.” (MB, preface)

[End of the Minute Book.]
APPENDIX A: Peirce’s classes (from the JHUC data)

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<tr>
<th>Academic Year</th>
<th>First Half-Year Students</th>
<th>Second Half-year Students</th>
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<tbody>
<tr>
<td><strong>Probabilities.</strong></td>
<td>4 students.</td>
<td>1879-1880</td>
</tr>
<tr>
<td><strong>Medieval Logic.</strong></td>
<td>Marquand, O.H. Mitchell, Newell, Nichols, W.I. Stringham.</td>
<td></td>
</tr>
<tr>
<td><strong>Mill’s Logic</strong></td>
<td>Gustav Bissing, William H. Howell, Adorian J. Robison, Henry A. Short, Lewis W. Wilhelm.</td>
<td>8 Students.</td>
</tr>
<tr>
<td><strong>Elementary Logic</strong></td>
<td>Robinson, Short, Wilhem.</td>
<td>1880-1881</td>
</tr>
<tr>
<td><strong>Advanced Logic</strong></td>
<td>Bissing, Fabian Franklin, Gilman, Ladd, Marquand, Mitchell, Robert W. Prentiss.</td>
<td></td>
</tr>
<tr>
<td><strong>Elementary Logic</strong></td>
<td>Bissing, Ellery W. Davis, Gilman, Marquand, Mitchell, Robert W. Prentiss.</td>
<td></td>
</tr>
<tr>
<td><strong>Elementary Logic</strong></td>
<td>Charles T. McClintock, H. F. Reid, Thorstein Veblen.</td>
<td></td>
</tr>
<tr>
<td><strong>Elementary Logic</strong></td>
<td>Bissing, McClintock, Mitchell, E.D. Preston, Morrison, I.Swift.</td>
<td></td>
</tr>
<tr>
<td><strong>Advanced Logic</strong></td>
<td>Davis, Gilman, Mitchell</td>
<td></td>
</tr>
<tr>
<td><strong>Advanced Logic</strong></td>
<td>Gillman, Ladd, Mitchell, Preston, Switt</td>
<td>1881-1882</td>
</tr>
<tr>
<td><strong>Readings in Logic.</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Logic of Relatives.</strong></td>
<td>Only for students of mathematics.</td>
<td>1882-1883</td>
</tr>
<tr>
<td><strong>Logic</strong></td>
<td>Howard, Jastrow, Merryman, Penniman, Perkins, Taber, H. W. Williams.</td>
<td></td>
</tr>
<tr>
<td><strong>Advanced Logic</strong></td>
<td>John Dewey, Jastrow, C.W. E. Miller, Taber</td>
<td></td>
</tr>
<tr>
<td><strong>Advanced Logic</strong></td>
<td>Jastrow, Taber.</td>
<td></td>
</tr>
<tr>
<td><strong>Philosophical Terminology</strong></td>
<td>Dewey, Jastrow</td>
<td>1883-1884</td>
</tr>
<tr>
<td><strong>Probabilities.</strong></td>
<td>Morris, G.S.: “Fellows in philosophy; Van Vort, Royce, Marquand, Pratt, Burt, Swift, Gilman, Cattell, Dewey.”</td>
<td></td>
</tr>
</tbody>
</table>
APPENDIX B: Summary of the Metaphysical Club talks

1879
28.8.
The Metaphysical Fallacy. C.W. Nichols.
The Doctrine of Limits. B. I. Gilman.
The Calculus of Leibniz and That of Newton. Henry L. Gant.
Zeno’s Arguments against Motion. Waldo Selden Pratt.
Non-Euclidean Space. Christine Ladd. (read by Peirce).
Critique of Whewell on Limits. Allan Marquand.
11.11.
Questions Concerning Certain Faculties Claimed for Man. C.S. Peirce.
Translation of Leibniz’s Meditations of cognitione, veritate et ideis. B.I. Gilman.
The Determinate Form of the Logical copula. Allan Marquand.
9.12.
The Ethics of Belief. David Stewart.

1880
13.1.
Translation of Philodemus. Allan Marquand.
Discussion. C.S. Peirce.
Moral Insanity as a Cause of Crime. C.W. Nichols.
Grant Allen’s Physiological Aesthetics. W.S Pratt.
12.2.
9.3.
Kant’s “Critique of the Pure Reason” in the light of Modern Logic. C.S. Peirce.
Ernst Schöder’s operationskreis des Logikkalkuls. W.I. Stringham.
Discussion. C.S. Peirce.
4.,5.,10.,11.
The Logic of the Epicureans. Allan Marquand.
A Method of Arriving at, and a New Notation for, De Morgan’s Twenty Propositions. O. H. Mitchell.
Richards Wagner’s Theory of Music as an Art. W.S. Pratt.
Wundt’s Logik. G.S. Morris.
A Problem in Mental Physiology. W.T. Sedgwick.
Francis Galton’s Psychological Inquiries. Allan Marquand.
Hume’s Human Understanding. B.C. Burt.
Leslie Stephen on Causation. G.S. Morris.
Hegelianism in St. Louis. C.W. Nichols.
12.
Wundt’s Algebra of Logic. Christine Ladd.
A Point of Logic Notation. Fabian Franklin.
2.
The Physiology of Visions. E.M. Hartwell.
Inhibition of Mental Action. W.T. Sedgwick.
Hypnotism. D.L. Brinton.
3.
Hickok’s View of Philosophy. F.E. Stebbins.
4.
On Relations between Sensations, by C. S. PEIRCE
Hegel’s Philosophical Propaedeutic, by B. C. BURT
On the Relation of Induction to Hypothesis, by Ellery William DAVIS
Straight Lines and Parallels, by J. B. PETERSON
5.
Logical Machines. Allan Marquand.
The External World. J.B. Peterson.
The Validity of Induction B.I. Gilman.
10.
No data.
11.
Theories of Induction. B.I. Gilman.
Discussion. C.S. Peirce.
English Deism and the Philosophy of Religion. G.S. Morris.
12.
No data.

1882
1.
E. von Hartman. G.S. Hall.
J.S. Mill Logic. C.S. Peirce.
2. and 3.
Murphy’s Habit and Intelligence. E.B. Wilson.
Browne’s Metaphysics. Benjamin Eli Smith.
4.
5.
Consciousness and Reality. M.I. Swift.
10.10.
No reports.

1882
14.11. (chair Peirce)
Samuel Tyler of the Baltimore Bar. C.R. McDaniel.
12.12. (chair Morris)
University and Philosophy. G.S. Morris.
Knowledge and the Relativity of Feeling. J. Dewey.
Recent Philosophical Journals. J.McKeen Cattell.

1883
16.1. (chair Hall)
The Logical Problem. Joseph Jastrow.
The Philosophical Work of Henry James, Sr. G.S. Morris.
13.2. (chair Hall)
Reaction-Time and Attention in the Hypnotic State. G.S. Hall.
Mr. Joseph Cook and the Philosophy of Lotze. J.M. Cattell.
Dr. Hopkins’s “Outline Study of Man”. Albert Harris Tolman.
13.3. (chair Hall)
10.4. (chair Hall)
Hegel and the Theory Categories. J. Dewey.
A Note on Mechanical Logic. Joseph Jastrow.
8.5. (chair Hall)
Rhythm in the Classic Languages. B.L. Gildersleeve.
Wundt’s Logic of Chemistry. Ira Remsen.
9.10. (chair Morris)
The Philosophical Conception of Life. G.S. Morris.

28
Galton’s *Inquiry into Human Faculty*. Joseph Jastrow.
13.11. (chair Morris)
Reply to Professor Morris on *Life*. C.S. Peirce
Mr Grant Allen on Idiosyncrasy. Fabian Franklin.
11.12. (chair Morris)
The Design Argument. A.T. Bruce.
Delbouef on Living and Dead Matter. John Dewey.

1884
17.1. (chair Morris)
Design and Chance. C.S. Peirce.
W.T. Harris’s *Philosophy in Outline* G.S. Morris.
12.2. (chair Hall)
The Nisus Formitivus in Sane and Insane minds. G.S. Hall.
11.3. (chair Hall)
The New Psychology. John Dewey
The Body as a Spiritual Residence. E.M. Hartwell.
22.4.
Mind as a Social Factor. Lester F. Ward.
On the Syllogism. J.R. Harris.
13.5. (chair Peirce)
The Logic of Religion. C.S. Peirce.
The Writing of the Insane. H. Steiner.

Peirce leaves JHU, Hall presides.

1884
18.11. (chair Hall).
On Fred Kapp’s *Grundriss einer Philosophie der Technik* and on du Prel’s *Philosophie der Mystik*. G.S. Morris.
On Meynert’s *Psychiatrie*, Radestock’s *Genie u. Wahnsinn*, and Sully’s *Psychology*. G.S. Hall.
Discussion of Psychical Research.
16.12. (chair Hall)
A Case of Visualized Number Forms. G.E. de Steiger.
A Case of Contagious Frenzy. J.C.C. Newton.
Final Causes. A.T. Bruce.
An Educational Study. C.H. Levermore.

1885
27.1.
The Introspective Method. A. H. Gross.
Demonstration of Logical Machines. Joseph Jastrow.
The Method of Philosophy. G.S. Morris.
3.3.
The Boy in Education. C.H. Levermore.
Final Causes. M.I. Swift.
Recent Psychophysic Studies. G.S. Hall
Appendix C: People who did not present in the MC but made recorded interventions to it

**Ayres, Brown** (1856-1919). PhD in 1888, taught physics before becoming president of the University of Tennessee.

**Goodman, Edgar** (1859-1930). Attended the local public schools, graduating from the Baltimore City College in 1875 at the age of sixteen, winning the first Peabody Prize. He was elected a member of the MC (probably at his own request?). A member of the Beta Theta Pi Fraternity, being at his death the oldest member of any Johns Hopkins fraternity. A lawyer, and then a journalist, reporter, telegraph editor of the *Baltimore American*, Baltimore correspondent for the New York World, etc.

**Marston, William Staples** (1853-1926). Professor of mathematics and principal of School in Baltimore. He was elected a member of the MC (probably at his own request?) in February 1880. In 1880 he opened the University School for Boys in Baltimore, of which he was principal. AB Harvard 74, Lawrence School, he was in touch with Benjamin Peirce and appears to be cited in James Mills' succession (1907). His first son was William Jr., his second son born January 13, 1883, was called Pierce.

1880/12/14 CSP to Marston: “I had been desirous of going to the Metaphysical [Club] this evening but I beg you will make my excuses inasmuch as I am suffering from the for me unusual infliction of a severe headache....”

Juliette also mentioned a woman who “was introduced to Charles by Marston” (1884/04/17 CEP to HPE).

**Rogers, Robert William** (1864-1930). Professor of English Bible, Greek, Hebrew. B.A. from the University of Pennsylvania in 1886, a second B.A. from JHU, and a Ph.D. from Haverford in 1890; position at Drew from 1893.

Lewis, A. Carroll (Prof, Philadelphia) = ? Henry Carroll Lewis, of Philadelphia, class of 1873 (his widow made a legacy to the mineralogy department of JHU).

Lanman, Charles Rockwell (1850-1941), a Sanskrit scholar, presented at MC according to G.S. Morris biographer Wenley, but it may be a mistake.
APPENDIX D: Peirce’s students who did not present at the MC

Bissing, Gustav (1862-1925). Dissertation on “Some Notes on Gauss’ Coordinates and Steiner’s Quartic Surfaces.” A patent lawyer, he wrote papers on Germany (his Heimat) during WWI.

Core, John Davidson Jr. (1858-1922). A bookkeeper and bank clerk in Chicago.

Cumming, William (1859-1938?). Born in Baltimore, minister; licensed April 1886, ordained May 1887.

Faerber, Julius Isaac. Reader in English, then professor of mathematics at the (German speaking) University of Dorpat, Russia (now Tartu, Estonia). In 1939 he directed *Statistische Gebrauchswerte: e. Sammlung von Formeln f. d. verschiedenen Belastungsfälle*.

Fels, Maurice (1857-1952). A lawyer, industrialist, civic worker, labor educator and philanthropist. His father and then his brother was the president of Fels & Company, manufacturer of Fels Naptha, a vastly popular household soap, of which he eventually became vice-president and director. He sent $500 to Einstein “for the beneficial use of the atomic bomb.” He wrote of his years at JHU: “A great question loomed before me: What was the truth? And do you believe it? Over the entrance doorway as I went in I read the words, ‘Veritas vos liberabit.’”


Gephart, George Frederick (1839-1891). Lawyer, played some political role in Maryland.

Glenn, John Mark (1858-1950) and William Lindsay (1862-1930). The two brothers became lawyers. After a while, William became a minister. John was a volunteer leader in social work, and first director of the Russell Sage Foundation, established in 1907 for “the improvement of social and living conditions in the United States” –now “the principal American foundation devoted exclusively to research in the social sciences”.

Hathaway, Arthur Stafford (1855-1934). He was the stenographer for Baron Kelvin's 1885 lectures at JHU; was personally acquainted with Eddison and Bell, whose job offer he turned down to keep teaching mathematics. He was on the faculty at Rose Polytechnic Institute in Terre Haute, Indiana, the author of textbooks like *A Primer of Quaternions* and *A Primer of Calculus*. He authored “Quaternions as numbers of four-dimensional space,” *Bull. Amer. Math. Soc.* 4 (1897), no. 2, 54-57.

Howard, Charles Morris (1864-1946), lawyer.

Howell, William Henry (1860-1945). Dean of the Medical Faculty and Professor of Physiology at JHU, he was President of the American Physiological Association. He proposed chemical mediation of nerve impulses and made extensive studies in blood coagulation.

At JHU he was an outstanding football player, and not averse to participating in students pranks. He relates “how they bought and surreptitiously installed in the university library a plaster cast of Darwin, how President Gilman remonstrated with
them and how, at the latter’s suggestion, busts of other naturalists were placed in the library, thus lessening the influence of Darwin’s presence.”

Of H. Newell Martin he says, “He was my teacher and mentor in physiology. I owe him much; I had a very great affection for him”. He wrote in 1915: “Investigators by nature are men who cannot refrain from following out their ideas. They are driven constantly to such work by interest or by irritation; either stimulus is sufficient. I fancy that among our greatest investigators it is the irritative impulse that predominates.”


Hussey, George Frederick (1859-1894), lawyer and book publisher.

Jarvis, Edmund Allen (1858-1880). He died on October 15th, 1880, after receiving his BA.

McClintock, Charles Thomas (1860-1921). He became a specialist of Hygien, publishing on insecticids and germicids, and taught at Ann Arbor.

Merryman, Charles Gorsuch (1860-1894), a Baptist minister. He studied at the Towson public school, the Baltimore City College, JHU, and then entered the Southern Baptist Theological Seminary.

Miller, Charles William Emil (1863-1934). Gildersleeve’s first assistant and successor on AJP. The son of a music teacher, Gildersleeve dissuaded him to be a musician. At Hopkins, he rose from special assistant (1891-92) to associate in Greek (1892-97), to associate professor (1897-1915), to professor of Greek. He completed a Syntax of Greek with Gildersleeve. “He spent his life in virtually anonymous toil checking references, improving expressions, and generally maintaining the excellence of AJP.” Gildersleeve called him “accurate and painstaking,” but his passion for accuracy was so intense that it exasperated even the demanding Gildersleeve. “Reserved from his students and a constant worker, he seemed to socialize only rarely.”

Newell, Hugh (1830-1915). Born near Belfast, he studied at the Royal College of Art in London, the Academy of Antwerp and the École des Beaux Arts in Paris. In 1851, he established himself in Baltimore, and made a name for himself as an artist. His bright, naturalistic work (still lifes, portraits, landscapes, and genre scenes) was highly popular. He was also a prominent art instructor who served as the Principal of the Pittsburgh Women’s School of Design and the President of the Maryland Institute College of Art. In 1879 he became professor of drawing in Johns Hopkins university. His work can now be seen in the Baltimore Museum of Art, the Washington County Museum of Fine Arts, the Shelburne Museum, the Reading Public Museum, the Maryland Historical Society, and the Peabody Institute. Hugh also happens to be the artist who painted the iconic portrait of his cousin McFadden A. Newell, founder of the Maryland Normal School of Baltimore, the foundational institution upon which the Maryland public school system was eventually built.

Nixon, Henry Barber (1857-1916). PhD on Lamé’s Equation (1886). He was instructor in mathematics at JHU from 1884 to 1885. While a graduate student at Hopkins, he coauthored the Bibliography of Linear Differential Equations with J. W. Fields, the initiator of the Fields Medal. He extended his post-graduate study to Applied Electricity, and later taught mathematics and astronomy at Pennsylvania College (later Gettysburg College).
Penniman, George Dobbin (1862-1943), a corporate lawyer. With his fellows of the 1884 class he introduced the game of football not only to JHU, but also to the city of Baltimore. They decided the uniforms would be black with a blue stripe and would include little woolen caps with tassels.

Perkins, Charles Albert (1858-1945). Professor of Mathematics, Lawrence University, 1880-1; Assistant in Physics, Johns Hopkins University, 1884-7; Associate Prof. of Physics, Bryn Mawr College, 1887-91; Professor of Science, Hampden-Sidney College, 1891-2; Professor of Physics and Electric Engineering, 1892-1907; Professor of Electrical Engineering and Chairman of Engineering Faculty, University of Tenn. Perkins Hall in the University of Tennessee was named after him.

Prentiss, Robert Woodworth (1857-1913). From 1881 to 1891 he was assistant to Simon Newcomb in the Nautical Almanac Service. Appointed professor at Rutgers College in 1891, became head of the department of mathematics and astronomy. His research interests were Harmonic Analysis and Astronomy, and he taught Astronomy and Analytic Geometry (plane curves and conic surfaces), Hydromechanics and Differential Equations. But his real love seems to have been his popular lectures on meteorites and the origins of the Universe: he lectured on “The Solar System,” and published *The Extent of the Universe*. In 1903 he became the director of the Schanck Observatory at Rutgers.

Preston, Erasmus Darwin (1851-1906). Worked for the US Coast and Survey from 1879 to his death. He pioneered gravity surveys on islands in the Pacific Ocean, and then later the Atlantic Ocean. “Determinations of gravity and other observations made in connection with Solar Eclipse Expedition, May, 1883, to Caroline Island.”

Reid, Harry Fielding (1859-1944), an American geophysicist. He was notable for his contributions to seismology, particularly his theory of elastic rebound that related faults to earthquakes. At JHU, he was granted his doctorate with a dissertation on the spectra of platinum, an assignment typical of those that Rowland gave his students. He travelled to Europe, studied glaciology in Alaska, and devoted his next 35 years to a career in research and teaching at Johns Hopkins.

http://en.wikipedia.org/wiki/Harry_Fielding_Reid

Robinson, Adoniram Judson (1854-1904). He served a few years as an instructor in Baltimore City College (1881-7), then a lawyer in Baltimore.

Short, Henry Alford (1858-?). Columbia graduate, PhD 1885. Son of a professor of philosophy, he taught Latin, became a wealthy real estate broker, and “made a practice of ruining girls”. He was sentenced to 5 years at Sing Sing.

Story, William Edward (1850-1930). He earned a Ph.D. in Leipzig in 1875 with a dissertation “On the algebraic relations existing between the polars of a binary quantic.” He was recruited at JHU as an assistant professor in mathematics in 1876. When Clark University was established in 1889, President G. Stanley Hall hired him to lead the mathematics department, and Henry Taber was hired as docent.

http://en.wikipedia.org/wiki/William_Edward_Story
Taber, Henry (1860-1936), PhD JHU 1888, On Clifford’s n-fold algebras (SV W.E. Story, also to Clark). Professor of Mathematics, Clark University. “Since Peirce was not reappointed [1883-]…Taber switched fields and began to take more mathematics courses.” (p. 44, A Century of Mathematics in America 3, Peter L. Duren, Richard Askey, Uta C. Merzbach, Harold M. Edwards). Taber became a function theorist who continued lecturing at Clark since 1890, including topics on Peirce’s logic and the theory of induction. Barnes (1925) wrote that “The ablest member of the department [mathematics, Clark University] was Henry Taber” (Barnes 1925, p. 275). Students of William Story and Taber included such much better known pioneers as Solomon Lefschetz and Olaf Kristofer Lie. “The careers of both Story and Taber…had a significant impact on the development of mathematical research in America” (Duren et al., 47).

Taber applies for a chair in Columbia College and asks Peirce’s for a recommendation letter (HT to CSP 23 Feb 1892). Peirce sends it at once, but there turned out to be no vacancy at the time. (Taber returns the letter, it is not preserved.) A bit later, he contacts Peirce for a recommendation for a professorship in mathematics at Chicago. Peirce tells that if there is such a position, he would like to apply for it himself. On 5 March 1885, while already at Clark, Taber had applied for a vacancy in the mathematical department and wanted to meet Peirce personally in NY.

Taber was having a joint session and J. M. Peirce was in the programme in the AMS meeting 1899. But Charles Peirce’s paper was absent and his paper “Determinants of quaternions” was read by title.

In 3 September 1931 Taber recounts to Paul Weiss: “I had the privilege of studying two years at Johns Hopkins under Peirce, the last two years of his connection with the University. During that period I … contemplated making logic the major subject for my doctor’s degree – which plan I abandoned, owing to Peirce’s connection with the University then terminating, and his being succeeded by Professor Emmot … who was quite ignorant of formal logic except the very rudiments. … I have been told that James, or perhaps it was Royce. I have forgotten which, had said, that Peirce impressed him as potentially the most powerful intellect he had ever known. I would certainly subscribe to this estimation of Peirce’s powers.”

Peirce showed that of linear associative algebras there are only three in which division is unambiguous. These are ordinary single algebra, ordinary double algebra, and quaternions, from which the imaginary scalar is excluded. He showed that his father's algebras are operational and matricular. Lectures on multiple algebra were delivered by J. J. Sylvester at Johns Hopkins and published in various journals. They largely treat the algebra of matrices. The theory of matrices was developed as early as 1858 by Cayley in an important memoir which, in the opinion of Sylvester, ushered in the reign of Algebra the Second- Clifford, Sylvester, H. Taber, C.H. Chapman, carried the investigations much further. (Cajori, A History of Elementary Mathematics).

Veblen, Thorstein B. (1857-1929). “An American economist and sociologist, and leader of the institutional economics movement. Besides his technical work, Veblen was a popular and witty critic of capitalism, as illustrated by his best-known book The Theory of the Leisure Class (1899). Veblen is famous in the history of economic thought for combining a Darwinian evolutionary perspective with his new institutionalist approach to economic analysis. While Veblen was sympathetic to state ownership of industry, he did not support labor movements of the time.” (from Wikipedia) http://en.wikipedia.org/wiki/Thorstein_Veblen

Wilhelm, Lewis Webb (1854-1911). According to H. B. Adams, he was “overworked and nervous” in his first years as a graduate student (1880-1883) and became somewhat “querulous.” He became vice principal of College.

Williams, Henry Winslow (1864-?). Lawyer in the office “Williams, Thomas and Williams” with his brother Nathan.
Witzenbacher, William John (1861-1916). Lawyer. Of German parents, he was a fluent linguist and read and spoke French, Spanish, Italian and German. As he also read ancient Greek and Latin classics, he was offered a professorship at Johns Hopkins, but declined. “His clear analytical mind had for many years grappled with the legal troubles of his many friends and not with their legal troubles alone, but their business problems, their political ambitions, and their social aspirations. ... If there was anything in his mentality which differed from the attitude of the general lawyer, it was his passion for differentiation, classification and painstaking dissection of causes and trial cases. This marked his legal career and distinguished him as one, more of the adviser and consultant than the attorney.”

Ahti-Veikko Pietarinen & Jean-Marie Chevalier
Helsinki Peirce Research Centre, April 2014-2015