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# Guide to the Eliakim Hastings Moore Papers 1899-1931



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## Descriptive Summary

<b>Identifier</b>	ICU.SPCL.MOOREEH
<b>Title</b>	Moore, Eliakim Hastings. Papers
<b>Date</b>	1899-1931
<b>Size</b>	8.5 linear feet (17 boxes)
<b>Repository</b>	Special Collections Research Center University of Chicago Library 1100 East 57th Street Chicago, Illinois 60637 U.S.A.

**Abstract** Eliakim Hastings Moore (1862-1932) served as chairman of the Mathematics Department from its founding in 1892 until his retirement in 1931. After Moore received his doctorate from Yale in 1885, he taught at that university and Northwestern before being called to Chicago. One of the seminal mathematicians of his day, Moore produced over seventy studies on the subjects of general analysis, geometry and foundations, group theory, integral equations and general analysis, and function theory.

## Information on Use

### Access

No restrictions

### Citation

When quoting material from this collection, the preferred citation is: Moore, Eliakim Hastings. Papers, [Box #, Folder #], Special Collections Research Center, University of Chicago Library

## Biographical Note

Eliakim Hastings Moore (1862-1932) served as chairman of the Mathematics Department from its founding in 1892 until his retirement in 1931. After Moore received his doctorate from Yale in 1885, he taught at that university and Northwestern before being called to Chicago. Undoubtedly, he was one of the seminal mathematicians of his day. During his life, Moore produced over seventy published and unpublished studies on the subjects of general analysis, geometry and foundations, group theory, integral equations and general analysis, and function theory. Many of Moore's students made significant contributions to mathematics. T. H. Hildebrandt, E. T. Bell, H. L. Slaughter, and Oswald Veblen, to name a few, stood as a tribute to Professor Moore's influence and teaching ability. In addition, Moore held presidencies in the American Association for the Advancement of Science, the American Mathematical Society, and was influential in the founding of the Mathematical Association of America.

## Scope Note

The collection is divided into six series. Series I, Correspondence, 1889-1931; Series II, University of Chicago, contains University correspondence and Mathematics Department material, Series III, Student Notes, taken in courses taught by Moore, reprints of published articles, and a large body of Moore's own notes. Much of the correspondence is highly technical, composed of mathematical expressions. The fifty reprints scan the entire range of Moore's mathematical interest.

## Related Resources

The following related resources are located in the Department of Special Collections:

<http://www.lib.uchicago.edu/e/spcl/select.html>

## Subject Headings

- Bell, Eric Temple, 1883-1960
- Bolza, O. (Oskar), 1857-1942
- Dines, Charles Ross, b. 1887
- Hildebrandt, Theophil Henry, 1888-
- Moore, Eliakim Hastings, 1862-1932
- Russell, Bertrand, 1872-1970
- Veblen, Oswald, 1880-1960
- University of Chicago. Dept. of Mathematics
- Mathematicians
- Lecture notes

## INVENTORY

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American Mathematical Society

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- American Association for the Advancement of Science
- American Mathematical Monthly
- American Philosophical Society

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- Angell, James R.
- Archibald, R. C.
- Ayres, W. L.

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Student Exam Books, 1917.

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Seminar on Hildebrandt's Theorum (Date and student unknown)

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"What is a Number System?" Address delivered to the Boston meeting of the American Association for the Advancement of Science, 1922.

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**Series IV: Reprints**

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Articles, A

- "Abelian-Regular Transitive Triple Systems, Concerning", *Mathematische Annalen*, Sonderabdruck aus dem 50. Bande.
- "Abstract Groups of Order  $k!$  and  $1/2 k!$  Holohedrally Isomorphic with the Symmetric and the Alternating Substitution-Groups on  $K$  Letters", *London Mathematical Society, Proceedings*, Vol. XXVIII, No. 597
- "Algebraic Surfaces of Which Every Plane-Section is Unicursal in the Light of  $N$ -Dimensional Geometry", *American Journal of Mathematics*, Vol. X, No. 1

**Box 6**

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Articles, B-C

- "Betweenness Assumptions", *the American Mathematical Monthly*, Vol. IX, (June-July, 1902) 152-153
- "Certain Crinkly Curves, On", *American Mathematical Society, Transactions*, Vol. 1, No. 1, (January, 1900) 72-90
- "Congruence-Group of Order, 360 Contained in the Group of Linear Fractional Substitutions", *American Association for the Advancement of Science, Proceedings*, Vol. XLI (1892)

**Box 6**

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Articles, C-D

- "Cross-Ration Group of  $n!$  Cremona Transformations of Order  $n-3$  in Flat Space of  $N-3$  Dimensions," *American Journal of Mathematics*, Vol. XXII, No. 3
- "Cross-Section Paper as a Mathematical Instrument," *School Science and Mathematics*
- "Decomposition of Modular Systems Connected with the Doubly Generalized Fermat Theorem," *Bulletin of the American Mathematical Society*, 2d Series, Vol. XIII, No. 6 (March, 1907) 280-288

**Box 6**

**Folder 18**

Articles, D

- "Decomposition of Modular Systems of Rank  $n$  in  $n$  Variables," *Bulletin of the American Mathematical Society*, 2d Series, Vol. III, No. 10 (July, 1897) 372-380
- "Definition of Abstract Groups," *The American Mathematical Society, Transactions*, Vol. 3, No. 4 (October, 1902) 85-902
- "Definition by a System of Functional Properties of the Function  $f(z)=\sin \frac{z}{\omega}$ ," *Annals of Mathematics*, (August, 1894)

**Box 6**

**Folder 19**

Articles, D

- "Definition of Limit in General Integral Analysis," *National Academy of Sciences, Proceedings*, Vol. I (December, 1916) 628
- "Doubly Infinite Systems of Directly Similar Convex Arches with Common Base Line," *Bulletin of the American Mathematical Society*, 2d Series, Vol. X, No. 7 (April, 1904) 337-341
- "Doubly-Infinite System of Simple Groups," *Bulletin of the New York Mathematical Society*, Vol. III, No. 3 (December, 1893)

**Box 6**

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Articles, D-F

- "DuBois-Reymond's Two Relative Integrability Theorems," *Annals of Mathematics*, Second Series, Vol. II, No. 4 (July, 1901)
- "Extensions of Certain Theorems of Clifford and of Cayley in the Geometry of  $n$  Dimensions," *Connecticut Academy, Transactions*, Vol. VII (1885)
- "Form of General Analysis with Application to Linear Differential and Integral Equations," *Atti Matematici*, (April, 1908)

**Box 6****Folder 21**

Articles, F

- "Foundations of Mathematics," *Science*, Vol. XVII, No. 428 (March 13, 1903) 401-416
- "Foundations of the Theory of Linear Integral Equations," *Bulletin of the American Mathematical Society*, 2d Series, Vol. XVIII, No. 7 (April, 1912) 334-362
- "Fourier's Constant, Note on," *Bulletin of the American Mathematical Society*, Vol. XIII (1907) 232-234

**Box 6****Folder 22**

Articles, F

- "Fundamental Functional Operation of a General Theory of Linear Integral Equations," *Fifth International Congress of Mathematicians, Proceedings* (August, 1912)
- "Fundamental Remark Concerning Determinantal Notations with the Evaluation of an Important Determinant of Special Form," *Annals of Mathematics*, 2d Series, Vol. I, No. 4 (July, 1900)
- "Fundamental Theorem of Elliptic Functions, as Treated in Halphen's *Traité*, *Circolo Matematica*, Tomo IV (1890)

**Box 6****Folder 23**

Articles, G

- "General Equations of the Seventh and Eighth Degrees, Concerning the," *Mathematische Annalen*, Sonderabdruck aus dem 51. Bande
- "General Theory of Limits," *The American Journal of Mathematics*, Vol. XLIV, No. 2 (April, 1922)
- "Generalization of the Game Called Nim," *Annals of Mathematics*, Second Series, Vol. II, No. 3 (April, 1910)

**Box 7****Folder 1**

Articles, G-I

- "Group of Holoedric Transformation into Itself of a Given Group," *Bulletin of the American Mathematical Society*, 2nd Series, Vol. I, No. 3 (December, 1894)
- "Harnack's Theory of Improper Definite Integrals," *American Mathematical Society, Transactions*, Vol. 2, No. 3 (July, 1901) 296-330
- "Interesting System of Quadratic Equations," *The American Mathematical Monthly*, Vol. III, No. 2 (February, 1896)

**Box 7****Folder 2**

Articles, I-L

- "Introduction to a Form of General Analysis," New Haven Mathematical Colloquium. New Haven; Yale University Press, 1910
- "Klein's Group of  $(N+1)!$  N-ary Collineations," American Journal of Mathematics, Vol. XXII, No. 4
- "List of Published Papers of E. H. Moore," Bulletin of the American Mathematical Society, Ser. I, Vol. III (1893) 73

**Box 7****Folder 3**

Articles, N-P

- "Note on Mean Values," The American Mathematical Monthly, Vol. II, No. 11 (November, 1895)
- "Note on Identities Connecting Certain Integrals," Bulletin of the American Mathematical Society, Ser. II, Vol. XVII (1911) 184
- "On a Theory of Linear Differential Equations in General Analysis," American Mathematical Society, Transactions, Vol. XVIII, No. 1 (January, 1917) 73
- "Power Series in General Analysis," Mathematische Annalen, Band 86, Heft 1/2 (1922)
- "Problem Suggested in the Geometry of Nets of Curves and Applied to the Theory of Six Points Having Multiply Perspective Relations," American Journal of Mathematics, Vol. X, No. 3

**Box 7****Folder 4**

Articles, P-S

- "Projective Axioms of Geometry," American Mathematical Society, Transactions, Vol. III, No. 1 (January, 1902) 142-158
- "Regular Triple Systems," Bulletin of the American Mathematical Society, 2nd Series, Vol. IV, No. 1 (October, 1897) 11-16
- "Simple Proof of the Fundamental Cauchy-Goursat Theorem," American Mathematical Society, Transactions, Vol. I, No. 4 (October, 1900)

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Articles, S-T

- "Space Divisions, Note on," American Journal of Mathematics, Vol. VIII, No. 2
- "Subgroups of the Generalized Finite Modular Group," The Decennial Publications, Chicago; The University of Chicago Press, 1903
- "Tactical Memoranda I-III," American Journal of Mathematics, Vol. XVIII, Nos. 3 and 4

**Box 7****Folder 6**

Articles, T

- "Theorem Concerning p-Rowed Characteristics with Denominator 2," Bulletin of the American Mathematical Society, 2nd Series, Vol. I, No. 10 (July, 1895)
- "Theory of Bilinear Functional Operations," American Mathematical Society, New Haven Colloquium, 1906

- "Theory of Improper Definite Integrals," American Mathematical Society, Transactions, Vol. II, No. 4 (October, 1901) 459-475
- "Transcendentally Transcendental Functions," Mathematische Annalen, Sonderabdruck aus dem 48. Bande

**Box 7**

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Articles, T-U

- "Triple Systems, Concerning," Mathematische Annalen, Sonderabdruck aus dem 43. Bande
- "Two-Fold Generalizations of Fermat's Theorem," Bulletin of the American Mathematical Society, 2nd Series, Vol. II, No. 7 (April, 1896) 189-199
- "Undergraduate Mathematical Curriculum," Bulletin of the American Mathematical Society, 2nd Series, Vol. VII, No. 1 (October, 1900) 14-24
- "Universal Invariant for Finite Groups of Linear Substitutions; with Application in the Theory of the Canonical Form of a Linear Substitution of the Finite Period" Mathematische Annalen, Sonderabdruck aus dem 50. Bande

**Series V: E.H. Moore Notes**

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1507-1607: Notes of Course on Hellinger Integers with Related Matter from LSA

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