

NATIONAL ASSOCIATION
OF
CEMENT USERS

PROCEEDINGS

OF THE

THIRD ANNUAL CONVENTION

Held at Chicago, Illinois,
January 7, 8, 9, 10, 11, 12, 1907

VOLUME III

EDITED BY THE PRESIDENT

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1907

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Extracts from the By-Laws

ARTICLE ONE

MEMBERS.

Section I. Any company or person engaged in the construction or maintenance of work in which cement is used, or qualified by business relations or practical experience to co-operate in the purposes of this Association, or engaged in the manufacture or sale of machinery or supplies for cement users, or a man who has attained eminence in the field of engineering, architecture or applied science, is eligible for membership.

Sec. II. A company shall be treated as a single member and allowed but one vote.

Sec. III. Application for membership shall be made to the Secretary on a form prescribed by the Executive Board. The Secretary shall submit a copy of the same to each member of the Executive Board, and a two-thirds majority of those present at a Board meeting shall be necessary to an election.

Sec. IV. Resignations from membership must be transmitted in writing to the Secretary.

Sec. V. Any member, after a fair hearing by first the Executive Board and then, with their approval, by the Association, shall be expelled from membership by a three-fourths ballot of the members present at any regular meeting of the Association, not less than twenty votes being cast. Such action shall not be publicly announced.

ARTICLE FOUR

DUES.

Section I. The fiscal year shall commence on the first of January and all dues shall be payable in advance.

Sec. II. The annual dues of each member shall be five dollars (\$5.00).

Sec. III. Any member whose dues shall remain unpaid for one year shall forfeit the privileges of membership. If he neglects to pay his dues within thirty days thereafter and after notification from the Secretary, his name may be stricken from the roll of membership by the Executive Board.

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THE NATIONAL ASSOCIATION OF CEMENT USERS
 FOR 1907.
 LIST OF OFFICERS

President,

RICHARD L. HUMPHREY.

First Vice-President,
 MERRILL WATSON,

Second Vice-President,
 M. S. DANIELS.

Third Vice-President,
 O. U. MIRACLE.

Fourth Vice-President,
 A. MONSTED.

Secretary,
 W. W. CURTIS.

Treasurer,
 H. C. TURNER.

LIST OF SECTIONAL VICE-PRESIDENTS.

Concrete Blocks and Cement Products. Art and Architecture.

SPENCER B. NEWBERRY, *Chairman.*
 H. N. JONES.
 J. W. PIERSON.
 H. H. RICE.
 L. L. BINGHAM.

CHARLES D. WATSON, *Chairman.*
 CHARLES C. BROWN.
 E. H. DEFEBAUGH.
 WILLIAM SEAFERT.
 WALTER C. BOYNTON.

Testing Cement and Cement Products. Machinery for Cement Users.

E. S. LARNED, *Chairman.*
 W. P. TAYLOR.
 J. E. MOORE.
 R. C. MORRIS.
 SPACKMAN ENG. CO.

M. WETZSTEIN, *Chairman.*
 J. F. ANGELL.
 F. L. DYKEMA.
 R. O. MIRACLE.
 C. M. RUNYAN.

Fireproofing and Insurance.

WILLIAM L. BAILEY, *Chairman.*
 E. T. CAIRNS.
 C. W. BOYNTON.
 A. L. JOHNSON.
 S. L. WILTSE.

Laws and Ordinances.

H. C. HENLEY, *Chairman.*
 ALBERT MOYER.
 JAMES G. HOUGHTON.
 W. H. PHILLIPS.
 W. J. SCOUTT.

Streets, Sidewalks and Floors.

GEORGE L. STANLEY, *Chairman.*
 C. W. CALDWELL.
 WILLIAM CONK.
 G. F. LILLIE.
 W. F. WISELOGEL.

Reinforced Concrete.

T. L. CONDRON, *Chairman.*
 H. C. MILLER.
 S. E. THOMPSON.
 H. C. TURNER.
 C. A. P. TURNER.

CHARTER
OF
THE NATIONAL ASSOCIATION OF CEMENT USERS.

KNOW ALL MEN BY THESE PRESENTS, That we, the undersigned, all of whom are citizens of the United States, and a majority of whom are residents of the District of Columbia, have associated ourselves together for the purpose hereinafter set forth and desiring that we may be incorporated as an Association under sub-chapter three (3) of the Incorporation Laws of the District of Columbia, as provided in the Code of Law of the District of Columbia, enacted by Congress and approved by the President of the United States, do hereby certify:

1. Name. The name of the proposed corporation is "The National Association of Cement Users."

2. Term of Existence. The existence of the said corporation shall be perpetual.

3. Objects. The particular business and objects of the said corporation shall be to disseminate information and experience upon and to promote the best methods to be employed in the various uses of cement by means of convention, the reading and discussion of papers upon materials of a cement nature and their uses, by social and friendly intercourse at such conventions, the exhibition and study of materials, machinery and methods and to circulate among its members by means of publications the information thus obtained.

4. Incorporators. The number of its managers for the first year shall be fifteen.

In Witness Whereof, we have hereunto set our hands and seals this fourteenth day of December, A. D. 1906.

RICHARD L. HUMPHREY, (SEAL)

JOHN STEPHEN SEWELL, (SEAL)

S. S. VOORHEES. (SEAL)

OFFICE OF RECORDER OF DEEDS,
DISTRICT OF COLUMBIA.

This is to certify that the foregoing is a true and verified copy of a Certificate of Incorporation, and of the whole of such Certificate as received for record in this office at 9.49 a. m., the 19th day of December, A. D. 1906.

In testimony whereof I have hereunto set my hand and affixed the seal of this office, this 20th day of December, A. D. 1906.

(Signed) R. W. DUTTON,

*Deputy Recorder of Deeds,
District of Columbia.*

(SEAL)

BY-LAWS
OF
THE NATIONAL ASSOCIATION OF CEMENT USERS.

ARTICLE I.

MEMBERS.

SECTION 1. Any company or persons engaged in the construction or maintenance of work in which cement is used, or qualified by business relations or practical experience to co-operate in the purposes of this Association, or engaged in the manufacture or sale of machinery or supplies for cement users, or a man who has attained eminence in the field of engineering, architecture or applied science, is eligible for membership.

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SEC. 3. Application for membership shall be made to the Secretary on a form prescribed by the Executive Board. The Secretary shall submit a copy of the same to each member of the Executive Board and a two-thirds majority of those present at a Board meeting shall be necessary to an election.

SEC. 4. Resignations from membership must be transmitted in writing to the Secretary.

SEC. 5. Any member, after a fair hearing by first the Executive Board and then, with their approval, by this Association, shall be expelled from membership by a three-fourths ballot of the members present at any regular meeting of the Association, not less than twenty votes being cast. Such action shall be publicly announced.

ARTICLE II.

OFFICERS.

SECTION 1. The officers shall be a President, four general Vice-Presidents, a Vice-President for each section into which the Association may be divided, a Secretary and a Treasurer.

SEC. 2. These officers, except the Secretary and Treasurer, shall be elected by ballot at the Annual Meeting and shall hold office for one year. The Secretary and Treasurer shall be elected annually by the Executive Board. Vacancies occurring during the year shall be filled by the Executive Board.

SEC. 3. The Executive Board shall consist of these officers and the five latest living Past-Presidents.

SEC. 4. The Secretary shall be custodian of the Association property and shall forward all moneys received to the Treasurer, obtaining his receipt for the same. He shall give such bond as the Executive Board may require.

SEC. 5. The Treasurer shall handle the funds of the Association subject to the approval of the Executive Board and shall give bond for the faithful performance of his duties in such sum as the Executive Board may designate. The Treasurer shall disburse funds only on warrant drawn by the Secretary and countersigned by the President.

SEC. 6. It shall be the duty of the Executive Board to audit the accounts of the Secretary and Treasurer before each annual meeting.

SEC. 7. The Secretary and Treasurer shall receive a salary to be fixed by the Executive Board.

SEC. 8. The Association shall be divided into such sections as the Executive Board may determine by the enrollment of members of the Association in such sections as they may choose. The Chairmen of these sections shall be elected by the sections at the first section meeting provided on the programme of the Annual Convention, and shall be reported to the Association for election as Vice-Presidents of the Association at the general election. Standing committees of four additional members each shall be appointed by the President of the Association in consultation with the respective chairmen to aid them in their work.

SEC. 9. At the first regular session of the Annual Convention, the President shall appoint a committee on nomination of officers, and a committee on resolutions.

SEC. 10. The election of officers shall take place at the business session on the second day of the convention, and they shall assume office at the close of the convention and hold same until their successors are elected and qualified.

ARTICLE III.

MEETINGS.

SECTION 1. The Association shall meet annually, the time and place being determined by the Executive Board, and notice shall be mailed to all members at least twenty days previous to the date of meeting.

ARTICLE IV.

DUES.

SECTION 1. The fiscal year shall commence on the first of January and all dues shall be payable in advance.

SEC. 2. The annual dues of each member shall be five dollars (\$5.00).

SEC. 3. Any member whose dues shall remain unpaid for one year shall forfeit the privilege of membership. If he neglects to pay his dues within thirty days thereafter and after notification from the Secretary, his name may be stricken from the roll of membership by the Executive Board.

SEC. 4. Upon the payment of a fee of two (\$2.00) dollars any person may attend the Annual Convention of the Association and enjoy all its privileges except the right to vote.

ARTICLE V.

AMENDMENTS.

SECTION 1. Proposed amendments to these By-Laws signed by at least three members, must be presented in writing to the Executive Board before November 1st of each year. In the notices for this meeting the proposed amendment shall be printed. At the annual meeting the proposed amendment may be discussed and amended and may be passed to letter-ballot by a two-thirds vote of those present. If two-thirds of the votes obtained by letter-ballot are in favor of the proposed amendment, it shall be adopted.

SEC. 2. The Executive Board is authorized to number the articles and sections of the By-Laws to correspond with any changes that may be made.

SUMMARY OF PROCEEDINGS OF THE THIRD CONVENTION.

FIRST SESSION.—TUESDAY, JANUARY 8, 1907, 10.00 A. M.

President Richard L. Humphrey in the chair.

The President appointed the following committees:

Committee on Nominations:

C. W. Boynton, Chairman, Chicago, Illinois.

J. W. Panushka, New Orleans, Louisiana.

C. L. Johnson, Castalia, Ohio.

Sanford E. Thompson, Newton Highlands, Massachusetts.

M. Wetzstein, South Bend, Indiana.

Committee on Resolutions:

J. W. Pierson, East Orange, New Jersey.

Charles C. Brown, Indianapolis, Indiana.

William Dickinson, Chicago, Illinois.

H. H. Rice, Denver Colorado.

A. Monsted, Milwaukee, Wisconsin.

Mr. H. C. Miller, of New York, was appointed to the Committee on Resolutions, to succeed Mr. J. W. Pierson, who resigned.

The report of the Committee on Streets, Sidewalks and Floors, George L. Stanley, Chairman, was discussed.

The following paper was read and discussed:

"Cement Sidewalk Paving," Albert Moyer.

The meeting then adjourned until 8.00 P. M.

SECOND SESSION.—TUESDAY, JANUARY 8, 1907, 8.00 P. M.

President Richard L. Humphrey in the chair.

The annual address was delivered by the President.

The following papers were read and discussed:

"The Mechanics of Reinforced Concrete," W. K. Hatt.

"Forms for Concrete Construction," Sanford E. Thompson.

The meeting then adjourned till Wednesday at 10.00 A. M.

WEDNESDAY, JANUARY 9, 1907, 9.00 A. M.

Meeting of Section on Concrete Blocks and Cement Products.

Mr. M. S. Daniels in the chair.

The session was devoted to a topical discussion on the manufacture of concrete blocks.

The meeting adjourned at 10.00 A. M.

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THIRD SESSION.—WEDNESDAY JANUARY 9, 1907, 10.00 A. M.

President Richard L. Humphrey in the chair.

The following papers were read and discussed:

"Selecting the Proportions for Concrete," William B. Fuller.

"Report Committee on Testing Cement and Cement Products," E. S. Larned, Chairman.

It was moved, seconded and adopted that the Committee on Resolutions be instructed to report a resolution covering the recommendation of the Committee on Testing Cement and Cement Products, which read as follows: "We recommend the appointment of a Committee on Specifications, consisting of the President of this Association, ex-officio; the Vice-President and members of the Section on Testing Cement and Cement Products, and the Vice-Presidents of each of the following named sections, viz.: Concrete Blocks and Cement Products, Streets, Sidewalks and Floors; Reinforced Concrete, Art and Architecture, Machinery for Cement Users, Fireproofing and Insurance, and Laws and Ordinances.

"The above committee to meet and organize before the close of this convention, and a copy of their report and recommendations to be prepared and sent to each member of this Association on or before the first day of June, 1907."

The meeting was then declared a business session.

The report of the Executive Board and the minutes of the meetings of the Executive Board were adopted as read.

The following resolution was adopted:

WHEREAS, It appears from the report of the Executive Board presented to this Association that, after the payment of all the

obligations of the Association for the year 1906, there still remains a balance in the treasury of the Association,

WHEREAS, The National Association of Cement Users desire to record the appreciation of the services rendered it by the President, Mr. Richard L. Humphrey; by the Secretary, Mr. Charles C. Brown, and the members of the Executive Board, who successfully directed the affairs of the Association this far;

THEREFORE, Providing that there shall be in the Treasury a sufficient sum for the purpose hereinafter specified; be it

Resolved, First, That the treasurer be and is hereby directed to pay to Mr. Richard L. Humphrey and to Mr. Charles Carroll Brown an honorarium of three hundred dollars (\$3.00.00), respectively; and, second, that the Treasurer shall reimburse the members of the Executive Board for their actual traveling and hotel expenses in attending upon the meetings of the Executive Board during the fiscal year 1906, and in the future the Treasurer shall pay from the funds of the Association the actual traveling and hotel expenses of the members of the Executive Board in attending its meetings, with the exception of those meetings held at the annual convention, when approved by the President and Secretary; and, be it further

Resolved, That we recommend to the Executive Board that it shall hold its meetings at such places as will mean the least expense to the Association, and to further reduce the expense, to arrange, when possible, for an executive committee of its own members to transact the necessary business of the Association, the acts of such Executive Committee to be subject to the approval of the full Executive Board at its next meeting and be recorded in its minutes.

It was resolved that the selection of the place for the next annual convention be referred to the Executive Board with power to act.

Upon the recommendation of the Committee on Nominations, the following officers were unanimously re-elected, the Secretary casting the ballot:

President, Richard L. Humphrey, Philadelphia, Pennsylvania.

First Vice-President, Merrill Watson, New York, New York.

Third Vice-President, O. U. Miracle, Minneapolis, Minnesota.

Fourth Vice-President, A. Monsted, Milwaukee, Wisconsin.

On the same ballot M. S. Daniels, Suffern, N. Y., was elected Second Vice-President, to succeed Mr. Fellows, who retired because of ill health.

It was moved, seconded and adopted that the President instruct the Executive Board to appoint a committee as recommended by the Committee on Testing Cement and Cement Products.

The Executive Board was instructed to appoint a Committee on Waterproofing.

The meeting then adjourned until 8.00 P. M.

FOURTH SESSION.—WEDNESDAY, JANUARY 9, 1907, 8.00 P. M.

President Richard L. Humphrey in the chair.

The following papers were read and discussed:

"Artistic Treatment of Concrete," A. O. Elzner.

"Concrete Surfaces," H. H. Quimby.

"Treatment of Concrete Surfaces," Lynn White.

The Committee on Art and Architecture, Charles D. Watson, chairman, presented its report.

The meeting adjourned until Thursday at 10.00 A. M.

THURSDAY, JANUARY 10, 1907, 9.00 A. M.

Meeting of Section on Streets, Sidewalks and Floors, and Reinforced Concrete.

President Richard L. Humphrey requested Mr. G. L. Stanley, Vice-President of the Section on Streets, Sidewalks and Floors, to take the chair.

The session was devoted to a topical discussion on sidewalk construction.

FIFTH SESSION.—THURSDAY, JANUARY 10, 1907, 10.00 A. M.

President Richard L. Humphrey in the chair.

It was resolved that the Vice-President of the Section on Streets Sidewalks and Floors be instructed to prepare specifications for sidewalks to be submitted to every member of the Association by June 1, 1907.

Mr. H. H. Rice read a paper entitled "Concrete Blocks," which was followed by a discussion by Spencer B. Newberry on the manufacture of concrete blocks.

The following papers were read and discussed:

"Tests of Building Block," R. D. Kneale.

"Report of Committee on Machinery for Cement Users," J. F. Angell, Chairman.

The meeting was then adjourned until 8.00 P. M.

SIXTH SESSION.—THURSDAY, JANUARY 10, 1907, 8.00 P. M.

President Richard L. Humphrey in the chair.

The following sections reported the result of their elections for chairmen:

Section on Reinforced Concrete, T. L. Condron.

Section on Machinery for Cement Users, M. Wetzstein.

Section on Streets, Sidewalks and Floors, George L. Stanley.

Section on Art and Architecture, Charles D. Watson.

Section on Concrete Blocks and Cement Products, Spencer B. Newberry.

The session was devoted to a topical discussion on the manufacture of concrete blocks.

The meeting was then adjourned until Friday, 10.00 A. M.

FRIDAY, JANUARY 11, 1907, 9.00 A. M.

Meeting of the Section on Testing Cement and Cement Products.

President Richard L. Humphrey in the chair.

The session was devoted to a discussion on concrete blocks and sidewalk construction.

The meeting adjourned at 10.00 A. M.

SEVENTH SESSION.—FRIDAY, JANUARY 11, 1907, 10.00 A. M.

President Richard L. Humphrey in the chair.

The following papers were read and discussed:

"Waterproofing Cement Mortars and Concretes," The Asphalt Mastic Method, H. Weiderhold.

"Waterproofing Cement Mortars and Concretes," The Membrane Method, Edward DeKnight.

"Waterproofing Cement Mortars and Concretes," The Dry Powder Method, R. R. Fish.

"Waterproofing Cement Mortars and Concretes," The Liquid Method, G. F. Fry.

"Waterproofing Cement Mortars and Concretes," The Hydro-carbon Paint Method, S. J. Binswanger.

The convention then adjourned until 8.00 P. M.

EIGHTH SESSION.—FRIDAY, JANUARY 11, 1907, 8.00 P. M.

President Richard L. Humphrey in the chair.

The reports of the following committees were read, accepted and placed on file: Report of the Committee on Fireproofing and Insurance, E. T. Cairns, Chairman. Report of the Committee on Laws and Ordinances, H. C. Henley, Chairman.

The latter report was referred to the Specification Committee, which was appointed by the Executive Committee in pursuance of the resolution recommended in the report of the Committee on Testing Cement and Cement Products and adopted by the convention.

President Humphrey presented an illustrated paper on the work being done at the Structural Materials Testing Laboratories in St. Louis, Missouri.

The following resolutions were presented by the Committee on Resolutions and adopted by the Convention:

1. RESOLVED That the Executive Board be instructed to take the necessary steps under the by-laws to amend the same in the section regarding the selection of the secretary by adding to the by-laws, in the proper place, the provision that the Executive Board shall secure the services of a secretary, and that they be authorized to fix the compensation for such services.

2. WHEREAS, There is lack of accurate information on the properties of cement mortar and concrete, and

WHEREAS, The investigations being carried on by the United States Geological Survey are such that will supply this information,

We, the members of the National Association of Cement Users, in convention assembled at Chicago, Illinois, January 11, 1907, do hereby express our great appreciation of this excellent work under the direction of the United States Geological Survey, and we further believe the results so far obtained are of inestimable and far-reaching value; therefore,

Be it resolved, That the Congress of the United States be requested to continue the annual appropriation for this work, so that it may be completed.

3. *Resolved*, That this Association in convention assembled express its thanks and appreciation of the work done by the gentlemen who contributed valuable papers which were read before the convention and which added so much to the interest and permanent value of the program.

4. *Resolved*, That the Association also express its appreciation for the able assistance and co-operation to the officers and the Executive Board in arranging for the general program of the third convention, and especially do we thank the members of the local committee in the city of Chicago, and the technical press throughout the country, who, by generous space in their columns, added to the widespread interest in the convention.

The following resolutions were adopted:

1. *Resolved*, That the by-laws be so amended as to provide for only a \$5.00 membership, each member, whether an individual or a corporation, to have but one vote.

2. *Resolved*, That the Executive Board be requested to consider the advisability of reporting an amendment to the By-laws providing for the appointment of the Committee on Nominations and Resolutions by the Executive Board to be announced on the first day of the convention.

The convention was then adjourned *sine die*.