

"The objects of this Association shall be to improve the methods of installing, maintaining and using electric wiring and apparatus to obtain and circulate information regarding electrical practice and to establish efficient and uniform methods of inspecting and supervising electrical installations with reference to hazards to life and property."

John E. Wise, Chairman
Industrial Commission
Madison

WISCONSIN CHAPTER

WESTERN SECTION

V. E. Anderson, Secretary
110 College St.
Watertown, Wis.

INTERNATIONAL ASSOCIATION OF ELECTRICAL INSPECTORS

Watertown, Wis.

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NEWS-BULLETIN.

MAY IS NEW MEMBERSHIP MONTH.

GET--YOUR--MAN.

WHAT A MEMBER OF THE IAEI RECEIVES.

In addition to the other services rendered by the IAEI to its members the following publications and literature are sent out to each member:

News-Bulletin.

The official publication of the Association. From 32 to 40 pages of solid reading matter, including news of the Association; activities of the various committees concerned with electrical work; official interpretations of the National Electrical Code; explanation of Code rules; and general matter of value to members.

Annual Proceedings.

A publication of from 100 to 200 pages covering a stenographer's report of the transaction of each Section Annual meeting. These publications contain much of interest to the inspector and individual using or interested in the National Electrical Code.

Year Book.

A publication giving the name, address, and official title of every member. These are arranged both alphabetically and geographically. Of particular use when desiring to correspond with others engaged in similar class of work. Many manufacturers and others include the Year Book in their mailing list and members are constantly receiving information of value to them.

National Electrical Code.

These are mailed free to every member as soon as issued. In addition the Association has on hand leather-covered copies of the Code which are sold to members at cost.

Advance Publication of Electrical Committee.

A publication showing all proposed revisions of the National Electrical Code to be considered by the Electrical Committee.

Underwriters' Laboratories List of Inspected Electrical Appliances.

The complete yearly list of April is sent to each member with supplementary lists issued every two months during the year. This list shows all material and devices approved by Underwriters' Laboratories.

While the above publications contain information of great value to the members, it is only a partial list of publications and literature sent to each member WITHOUT ADDITIONAL COST OVER THE YEARLY DUES.

-- ALSO --

WHAT A MEMBER RECEIVES FROM THE WESTERN SECTION.

A Convention with everything free to members, including a Banquet and entertainment.

News-letters sent out by Secretary Board.

A lot of information as pertains to the Western Section.

-- ALSO --

WHAT A MEMBER RECEIVES FROM THE WISCONSIN CHAPTER.

A Convention with everything free to members, including Banquet and entertainment.

The Wisconsin Electrical Inspectors Review, a sixty page periodical filled with very important material which will keep for reference for years to come.

The News-Bulletin such as the one you are now reading.

ALL THE ABOVE FOR ONLY TWO DOLLARS (\$2.00).

Can you see how any Inspector can afford not to belong?

This is your sales talk for new members. Enclosed find application blank. Below is a list of forty Inspectors.

"LET'S GO."

Guy Rice	Fire Chief	Antigo
I. G. McCreedy	(Joined)	Cudahy
W. S. Leonard		Fort Atkinson
Herman Bichler		Black River Falls
F. E. Wallrath		Bloomer
Geo. W. Slightam		Janesville
Wm. Murphy	Fire Department	Janesville
P. R. Williams		Boscobel
H. W. Weckwerth	Supt. Elec. & Water Dept.	Kaukauna
E. E. Schneider		Cedarburg
S. H. Cray	City Engineer	Chippewa Falls
G. A. Schroeder	Supt. Light Dept.	Kilbourn
Frank Roob	Water & Light Dept.	Columbus
Ben Merkel		Milwaukee
Earl S. Parsons		Menomonie Falls
E. G. Harrison		Merrill
G. A. Nollup		Merrillan
L. Rausch	Fire Chief	Neenah
H. C. Hansen	Fire Chief	Rhinclander

Alton Hoard		New Auburn
R. H. Strang	Supt. Water & Light	
	(Dept.)	Richland Center
O. F. Schmidt	Elec. Light Supt.	New Holstein
H. R. Thomas	Supt. Elec. Dept.	New London
Bert Harris	Fire Chief	Oconto
Emmett Johnson	Supt. Water & Light Dept.	Oconto Falls
City Engineer		South Milwaukee
Chas. Erickson		Sparta
J. P. Gleason	Chief Engr. Nekoosa	Port Edwards
Mr. Bay	Supt. Water & Light Dept.	Port Washington
O. B. Rode		Racine
E. A. Bohn	Supt. Elect. Dept.	Reedsburg
L. E. Spraez	Elect. Department	Reedsburg
G. G. Lane	Electrical Inspector	Westby
A. J. Hanneman	Inspector	Wis. Rapids
A. M. Cedakowitz		Waukesha
Peter Wild	Fire Chief	Waukesha
A. Kohlman	Fire Chief	Waupun

We must have one hundred members before our next Convention.
We have seventy-one active members now.

COUNTY INSPECTION BILL PRESENTED.

The Electrical Contractors of Green Bay have sponsored a County Inspection Bill know as 733A and was introduced by Assemblyman Harold Malchow by request.

We are all in favor of County Inspection but this bill was drawn up in such a way that the Executive Committee voted to oppose it.

Below are some of the reasons for our action:

1. It is an inspection bill and we should have been consulted in its making.
2. County Inspector has jurisdiction over all but Milwaukee County.
3. New Power Lines must be inspected by County Inspectors.
4. New Telephone and Telegraph lines must be inspected by County Inspectors.
5. Even a farmers fence must be approved by said County Inspector.
6. A motor in a factory cannot be moved without his approval, etc.

A meeting was held at the Lorraine Hotel in Madison on April 28th. to discuss this bill. Besides the Madison Contractors the following were present: John Wise, Harvey Griem, Your Secretary, representing the Inspectors and Mr. O Mera and Mr. Herzberg representing the contractors association. The Contractors voted to withdraw their support from the bill and asked the Inspectors to offer a substitute amendment. The following sub ammendment was offered:

Sub Amendment for Section I of Bill 733-A, the following: Each County of the state of Wisconsin is hereby empowered to employ an electrical inspector. His duties and powers as well as other regulations for safe electrical work shall be determined by ordinance passed by the County Board in regular session.

Section II. reads: This act shall take effect upon its passage and publication. Mr. Wise attended the first hearing held April 22nd., and your Secretary appeared at the hearing held April 29th. The third hearing is set for May 6th. and it is questionable whether the bill has a chance.

SIXTH ANNUAL CONVENTION.

Retlaw Hotel, Fond du Lac. October 20th. and 21st. 1931.
Begin now to plan to be there.

EXECUTIVE COMMITTEE REPORT.
John Pochlman, Chairman.

A meeting was held Friday, March 27th.

The next Convention date was set for October 20 and 21 at Fond du Lac.

The proposed county inspection bill was discussed but was not endorsed in its present form. A substitute amendment was offered. Most of the time was taken in drafting a set of by-laws.

Next meeting was set for May 22nd.

MEMBERSHIP AND PUBLICITY COMMITTEE.
V. E. Anderson, Chairman.

Better cooperation will be appreciated in developing this bulletin. Considerable time and money is spent each month for your interest. If you have lost the first issue a copy may be had by asking for it.

New Members.

Odell Camren	Supt. Light & Power Dept.	Sun Prairie
Glen T. Fiedler	Electrical Instructor	1501 Division Green Bay
I. G. McCreedy	City Inspector	622 Layton Ave. Cudahy

MATERIAL AND DEVICE COMMITTEE.
Geo. Morzfeld, Chairman.

No report.

STATISTICAL COMMITTEE.
F.M. Barksdale, Chairman.

No report.

However, the following has been placed under this title.

Oshkosh Baby Electrocuted.

On April 15 an eleven months old baby, Raymond Johnson, son of Mr. and Mrs. Urho Johnson, was electrocuted when the baby touched a faulty electric light socket.

The mother said the baby had been crawling on the floor and when she returned after stepping out of the room a moment, she found her son dead. The body lay on a furnace hot air register which electricians said completed the circuit as the tot grabbed the socket.

The current was 115 volts, an amount unlikely to prove fatal to an adult, Electric Company Officials said.

F. W. Kermin, Electrician for Fairbanks Morse Company, of Beloit has been going around with both hands tied up as the result of skinning a wire with 4000 volts connected. The switch was supposed to be open.

Livestock Dies in Fire.

Racine - April 13. An electrical short circuit was blamed Monday for a fire that destroyed a barn on a farm belonging to Myron West, town of Raymond. Five cows, one mule and a dozen pigs were burned.

Boy Burned at Play Near Tension Wires.

Kenosha - April 22. Burned when he touched wires at the 60,000 volt transformer station of the Wisconsin Gas and Electric Company plant Wednesday night, Harry Prostko, 9, was taken to the Kenosha hospital, unconscious, by workmen. He was thrown 30 feet by the shock; his clothing was burned from his body and his back, hands and arms were severely burned. Lights in sections of Kenosha were extinguished for a moment by the contact. He died three days later.

High School Boy Climbs Power Line Pole, is Killed.

Milwaukee. Harry Kosalof, 15, student at West Division High School, was electrocuted today when he climbed a pole along the Electric Company's private right of way between Milwaukee and Waukesha and came in contact with a high voltage power wire. He was knocked to the ground and instantly killed.

PUBLIC RELATION COMMITTEE.

F. R. Daniel, Chairman.

Another dinner meeting was held recently at Beloit. The question of a new city electrical ordinance was taken up. Harvey Griem, the inspection of West Allis, was the principle speaker.

A joint meeting of the Fond du Lac Electric League and the members of the Electrical Class from the Vocational School wound up this winters activities in the form of a banquet at the Retlaw Hotel; about forty-five attended and Frank Daniel was the principle speaker.

Another meeting was held at Green Bay and John Wise and Walter Simon of the Industrial Commission were the speakers.

Several other meetings have taken place during the past month but they have not been reported.

REVIEW OF EDITING COMMITTEE.
Harvey Griem, Chairman.

Harvey says its a little early to report-on the next Review. However, he will soon be able to give us some news. Mr. Griem has been quite active at meetings throughout the state on the proposed County Inspection Bill.

CODE COMMITTEE.
W.H. Haig, Chairman.

Mr. Wise stated in a conversation the other day that Inspectors are lax in permitting A.B.C. Cable to be used without the bushing, also the use of two lock nuts and a bushing in place of a locknut, ground wedge and bushing in service cabinets. These are important rules and should be enforced.

CODE QUESTIONS.

Question 1. Paragraph (i) of Section 505 of the 1930 National Electrical Code reads as follows:- "At all points where armor terminates, additional protection shall be afforded the conductors by approved means so that the conductor will be adequately bushed." How is the phrase "approved means" and the expression "adequately bushed" interpreted.

Answer: "Approved Means" is any method which may be approved after test by the Underwriters Laboratories.
"Adequately bushed" means providing protection at the end of the armor so that the sharp points of the metal will not cut into the insulation of the wire.

Question 2. Does the State Electrical Code require the use of fibre bushings where the ends of the armor terminate for all types of metallic armored cable?

Answer: We are informed that the Electrical Committee of the National Fire Protection Association, at its February Meeting in New York, so changed the armored cable rules as to require an insulating bushing with all types of armored cable in the 1932 National Electrical Code.

Question 3. In case of long runs on 3-phase systems with one leg grounded at the transformers, the resistance of the wire or cable to ground is considerable higher than the mechanical system and an objectional flow of current and sparking is obtained if these two points come in contact with one another. What method could be recommended to remedy such a condition?

- Answer 3. The committee feels that if the system is grounded at the transformer and service entrance switch and insulated at all other points as required by orders 1031-B-1, 1031-B-5 and 1309.03-c no sparking should result.
- Question 4. Would it be practicable to use one large wire on a solid neutral system on a long run from a controlling switch-board to a junction cabinet, where the various circuits branch out?
- Answer: Yes, orders 1306.13-c and 1308.07-e specifically cover this point.
- Question 5. What is the difference between a wire raceway and a trough?
- Answer: It is assumed the word "trough" means the manufactured product which comes in 4 foot sections, 4 inches square with flanged ends. The chief difference between this trough and wire raceway is in their respective dimensions and the fact that the Underwriters Laboratories label and list wire raceways, but not troughs.
- Question 6. If a condenser proved effective (installed either on poles or service entrances) to diminish lightning, high frequency hazards and disturbances from high tension lines, would it meet with the approval of the Industrial Commission and the Public Utilities?
- Answer: Any device which would eliminate the above hazards without introducing new ones, would undoubtedly be acceptable to the Industrial Commission. We cannot speak for the Public Utilities except to say that it is highly improbable that they would object.
- Question 7. Can concealed knob and tube work be done in basements with low ceiling (7 ft.) when it is certain it will be finished over?
- Answer: Order 1305.02 would permit this if the ceiling was immediately installed. Order 1301-C-1 would prohibit this if ceiling was not immediately installed. Time is the deciding factor in this case, and since the code committee is not in possession of all the facts, we are unable to decide definitely.
- Question 8. What experience have our members had with insect electrocuters? These are in the form of a metallic grid, charged at a high potential by a small transformer, somewhat like a bell ringing transformer in appearance.
- Answer: The code committee feels that no difficulty should be experienced with approved insect electrocuters, however, it is thought this is really a question for the association rather than the code committee.

Question 9. How is the size of conductor determined in the 3-phase power installations according to the State Code?

Answer: By determining the motor size and full load current as in Order 1308.08-a and referring to tables on pages 274-279 Wisconsin State Electrical Code.

Question 10. Is there available on the market, an outlet box or a supporting device for an outlet box that can be used for rigid support on wood partitions or walls covered with wall boards or plaster on wall boards such as Celotex, Rocklath, Insulite, Sheetrock, Thermolath, in existing buildings?

Answer: The Code Committee feels this question could be properly and advantageously submitted to the Material and Device Committee Chairman.