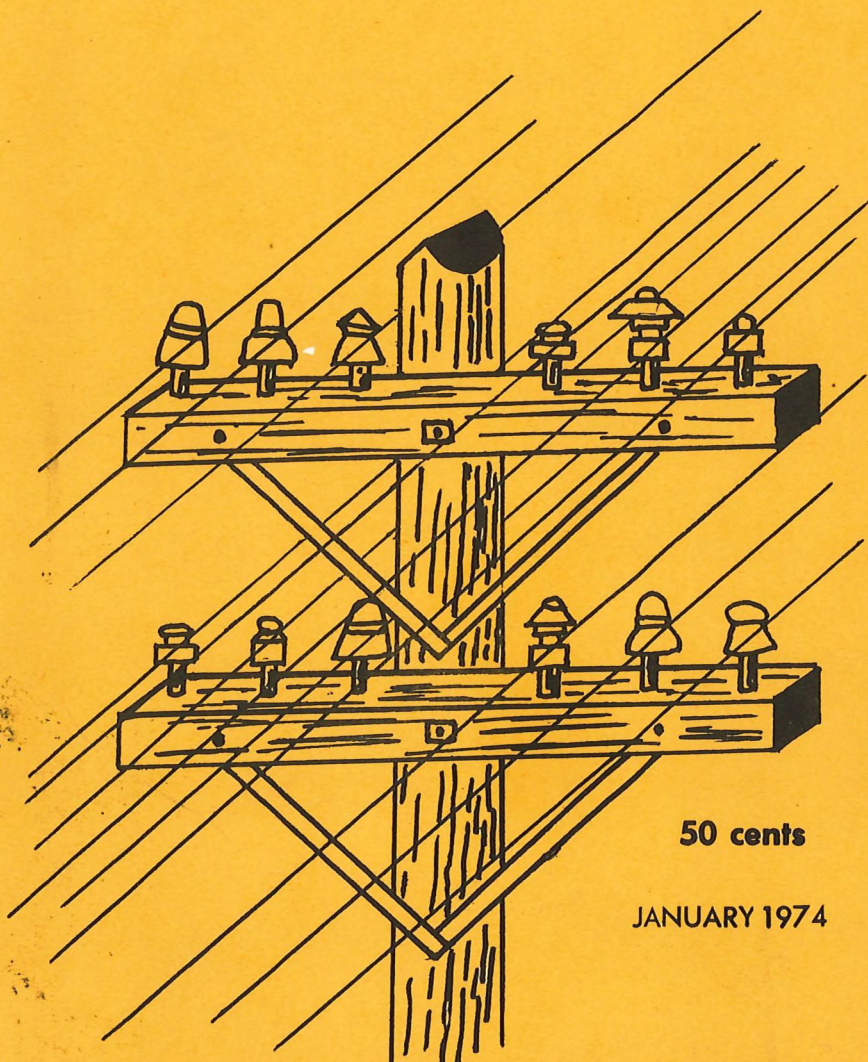


CROSS ARMS

an
insulator collectors'
magazine



50 cents

JANUARY 1974

367 Signal Hill Road
King of Prussia, Pa. 19406

CROSS ARMS--dedicated to enriching the knowledge of the insulator collector, and enlarging the ranks of the insulator collecting hobby.

PUBLISHING POLICY

1. CROSS ARMS will publish any information available concerning insulator shows and swap meets.
2. Any information received by CROSS ARMS before the 15th of the month will be published and in the hands of our subscribers by the 5th of the next month.
3. All ads are kept confidential until they are published.
4. We will do our best to make sure all advertisers are reliable but cannot be held responsible for the validity of their copy nor for their performance. We accept no responsibility for errors except to reprint the incorrect portion of the ad in a later edition.
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CROSS ARMS

An Insulator
Collector's Magazine

Vol. 2, No. 12

January, 1974

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SHOWS AND SWAPS

JANUARY 19-20

Las Vegas, Nevada

Southern Nevada Antique Bottle Collectors Antique Bottle Show and Sale at the Las Vegas Convention Center. Info: Dottie Daugherty, 884 Lulu Ave., Las Vegas, NV 89119.

FEBRUARY 9-10

W. Palm Beach, Florida

2nd Annual Gold Coast Insulator Meet at the American Legion Hall. Info: Chas. Glasgow or A. W. Merrell, Jr., 501 Monceaux Rd., W. Palm Beach, Fla. 33405. Phone (305) 833-9714.

FEBRUARY 16-17

Miami, Florida

8th Annual Bottle and Insulator Show & Sale, Miami Bayfront Auditorium. Info: B. W. Yarbrough, 9901 S. W. 138 St., Miami, Fla. 33158 (305) 238-5268.

FEBRUARY 23

Franklin, New Jersey

Tri State Insulator Show & Swap Meet at the Franklin Armoury. Info: Jim Bridges, 35 Lakeview Rd., Sparta, NJ 07871 (201) 729-5813.

FEBRUARY 23

Cromwell, Connecticut

Yankee Pole Cats Insulator Club Swap and Sell Meet. American Legion Hall, Cromwell, CT. Info: Doug MacGillvary, 51 Avondale Road, Manchester, CT 06040. Ph. (203) 649-0477.

MARCH 2-3

Winfield, Kansas

3rd Annual Kansas Insulator Swap & Sale Meet, American Legion Bldg., 115 W. 10th St., Info: Bob Wilson, 602 E. 12th St., Winfield, KS 67156.

MARCH 30-31

Toledo, Ohio

The 2nd Glass Capitol Insulator Show at the Lakevue Hall located at the intersections of US RT 20 & I-75 about 10 miles south of Toledo. Info: Jack Snyder, 244 Waggoner Blvd., Toledo, OH 43612 (419) 476-4902 or Charlie Zilba, 3557 River Rd., Toledo, OH 43614. (419) 385-6312.

APRIL 6-7

Lubbock, Texas

The Hub of the Plains Insulator Club is planning their 3rd annual Collectibles Show. Koko Palace, 50th & Q. Info: Jerry Stevens, P.O. Box 871, Lamesa, TX 79407.

APRIL 6-7

Volusia County, Florida

MT Bottle Collectors Assn. announces its 4th Annual Trade Festival at the Volusia County Fairgrounds. Info: MT Bottle Collectors Assn., P.O. Box 1581, Deland, FL 32720. Ph. 734-8865.

APRIL 6-7

Kingman, Arizona

6th Arizona Insulator & Bottle and Collectors Meet at Mojave County Fairgrounds. Info: W. B. "Rip" West, 413 Monroe St., Kingman, AZ 86401. Ph. (602) 753-3650.

APRIL 27-28

Rochester, New York

G. V. B. C. A. will hold their 5th Annual Bottle Show & Sale at Monroe County Fairgrounds, Rt. 15A. Info: Jack Stecher, 230 Eileen Dr., Rochester, NY 14616 ("Dealer" contracts: Richard Bowman, 1253 LaBaron Circle, Webster, NY 14580; "Exhibit" co-ordinator: John DeVolder, 27 Haley Rd., Ontario, NY 14519.)

MAY 4-5

Missoula, Montana

The Hellgate Antique Bottle Club Annual Bottle Show.
Info: Show Chairman, Hellgate Antique Bottle Club,
Missoula, MT 59801.

MAY 4-5

San Diego, California

San Diego Bottle Club will host a show. For more
info: 519 Verdin St., El Cajon, CA 92021.

MAY 25

Moorestown, New Jersey

2nd Annual Southern New Jersey Insulator Show,
Moorestown High School. Info: Gene Bond, 15 East
Camden Ave., Moorestown, NJ 08057.

JUNE 29-30

Hershey, Pennsylvania

The Fifth National Insulator Show & Sale & N. I. A.
business meeting at the Hershey Motor Lodge. Info:
Mr. Steve Bobb, 610 Northampton Rd., Norristown,
PA 19401. Ph. (215) 539-6533.

REMEMBER--Your 50¢ for your subscribers directory
and 50¢ if you wish to be put in as a speciality col-
lector. Let us know if you would like your name delet-
ed from the Subscribers Directory.

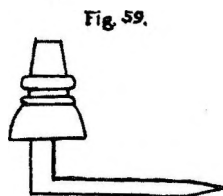
The Directory will be out in February.

Excerpts from "The Electro-Magnetic Telegraph" by Laurence Turnbull, M. D. , 1852.

"We say nothing at present of the shapes and forms best adapted for telegraphic purposes, but throw out the foregoing hints, hoping to hear from some of the telegraphic fraternity on the subject. :

The insulator employed on the Morse line from New York to Washington, is shown in the following cut, Fig. 59.

It consists simply of a glass knob with two rings, between which the wire is simply wrapped; the shank is of iron, and is driven into the posts.



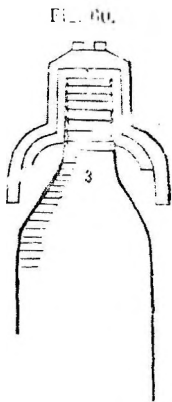
From the ease with which moisture settles upon the glass, there cannot be a doubt that a large portion of the current is led into the post in wet weather, and so into the ground, and thus the instrument works with difficulty upon even the slightest shower.

I am somewhat surprised that this company, with its intelligent and public-spirited President, does not make some effort to improve its insulators, and have them protected. It has been found, that with this form of insulator the atmospheric electricity cracks the glass in two pieces, just as if it had been cut with a diamond.

A better form is seen in Fig. 60, which is the insulator used on the House line of telegraph.

It consists of a glass cap about five inches in length and four inches in diameter, having a coarse screw-like surface cut inside and out. This glass cap (no. 2)

is screwed and cemented into a bell-shaped iron cap (No. 1) about from three to four lbs. in weight, projecting an inch before the lower edge of the glass, protecting it from being broken; this is



then fitted with much care to the top of the pole (No. 3), and is covered with paint or varnish. The conducting wire is fastened to the top of the cap by projecting iron points, and the whole of the iron cap is thus in the circuit, as the wire is of iron and not insulated. To prevent the deposit of moisture, the glass is covered by a varnish of gum-lac dissolved in

alcohol, and the ring-like form of the glass is to cause any moisture to be carried to the edge and there drop off.

The chief objections to this form, although an improvement on that employed on the Morse line, is, that it is very expensive, from the large amount of glass and iron used in its construction. It could be made much more effectual if of well glazed stoneware, having an iron hook for the suspension of the wire, and a hood of wood to keep off the rain. Or, not to throw away the glass insulators that are now in use, if, instead of the iron roof, use wood, and instead of the varnish employ the melted shell-lac, heating the glass by radiant heat, and then dipping the glass into it, so that, instead of it cracking and chipping off, it will remain and act as a perfect insulating coating; also fixing a hook with plaster of Paris into the upper part of the glass, and suspend the wire by it.

A third form of insulator has been patented by Messrs. Farmer and Batchelder, of Boston, shown in Fig. 61, which is a vertical section of it. The outer cap shown by the dark line is of cast-iron, which is lined with porcelain; in the interior of this porcelain is fitted a rod with a screw upon its lower end; this rod is held by glass or lead cast around it, and the rod itself is also coated with porcelain. The lower edge of the cap is turned inwards towards the holder, its form being such as to divert the rain downwards and prevent it from entering the inside of the cap. Mr. Batchelder informed me that this form of insulator, which is employed in the Municipal Telegraph in the city of Boston, has been found to insulate well.

Fig. 61.

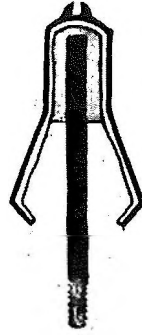


Fig. 61 above furnished us with the general shape and the text furnished us with the name. Result: is the actual patent drawing and Letter of Patent. The only missing link left is to find the actual insulator.

JOHN M. BATCHELDER OF CAMBRIDGE, MASS.
Excerpts from Patent No. 8,518, October 14, 1851.

Figure I is a vertical section of the instrument. Fig. II is a transverse section on the line AB. Fig. III is a transverse section on the line CD. Fig. IV is a section of the cup, showing the lining of glass or other vitrified substance.

The object of this invention is to afford a convenient and suitable holder or supporter for the wires of the electro-magnetic telegraph, and to secure a more perfect insulation of the wires, especially during rain-storms, than has heretofore been effected.

A hollow cup, E F G H I, Fig. I, made of iron or other metal, is filled to about one-half of its depth with glass L L or other substance that is a non-conductor of electricity, in which is embedded a metallic bar or shank M, usually made of wrought-iron, by which the insulator is supported. This shank or center bar has upon its lower end a screw, which enters the telegraph pole, or it may be pointed and bent at right angles, and driven into the post. The cup, the glass, and the center bar, as above described, are commonly known and used.

What I claim and desire to secure by Letters Patent, is is--1) The re-entering angle at or near the base of the cup, as described, for the purpose of giving the wind a direction downward, thereby preventing the rain that is driven by the wind from entering the cavity.

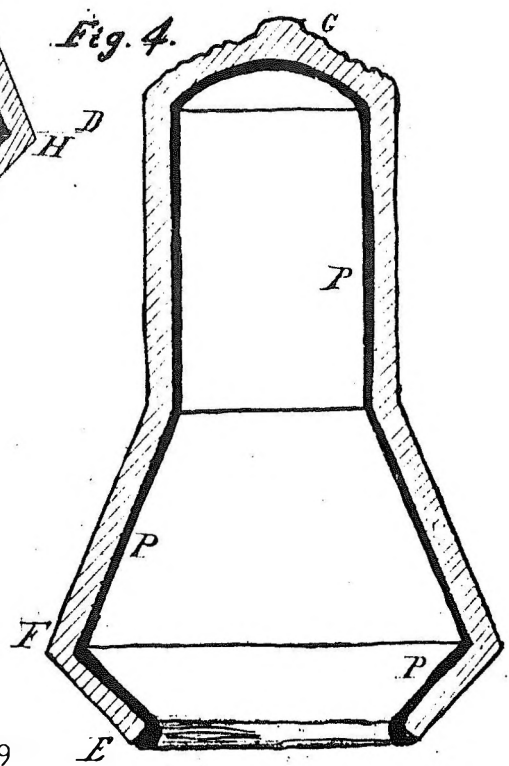
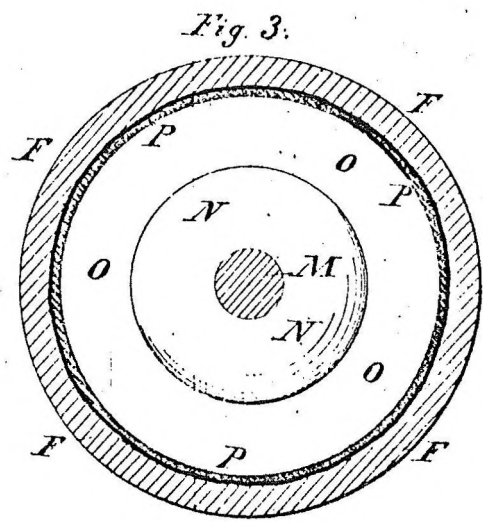
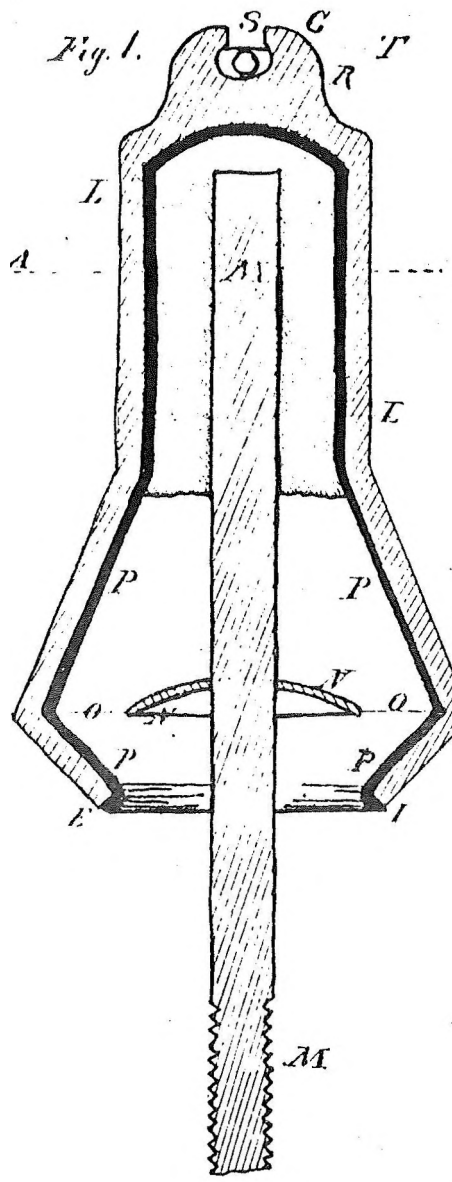
2) The annular disk or washer supported upon the center shank or rod, and so placed with or at the open or lower end of the inverted cup as to prevent the free access of wind and rain to the inside of the cup.

3) I do not claim the mode of embedding the shank in glass cast around it; but I do claim the application of the enamel or glazing of porcelain, glass, or other vitrified non-conducting material to a surface of metal when the same is used for insulating the wires of the electric telegraph.

J. M. BATCHELDER.
 INSULATOR FOR TELEGRAPH WIRES.

No. 8,418.

Patented Oct. 14 1851.



Hello! Members. Happy New Year!

We hope you had a safe and Merry Christmas.

Most of you should have noticed by now we have a new address: Eastern Insulator Club, P.O. Box 195, Springfield, VA 22150.

The reason for this is to cut cost and make us more efficient. This will help keep our dues down for another year. By having a P.O. Box we won't have to reprint everytime there is a change of officers. We should be more efficient because we won't be waiting to use up outdated club information.

The election results are in and are as follows:

President: Jim Barron, 6815 Darby La., Springfield, VA 22150 (703) 971-1647.

Vice President: Jim Boyd, 7420 Arlington Blvd., Apt. 204, Falls Church, VA 22042 (703) 573-2662.

Sect.-Treas: Davy Crockett, 5710 Belfast Lane, Springfield, VA 22150 (703) 451-7555.

MD Vice-Pres.: Janet M. Dailey, 690 College Pkwy., Rockville, MD 20850 (301) 424-3885

NY Vice-Pres.: Gary & Dieline Coleman, 11206 Winder Lane, Lancaster, NY 14086 (716) 681-5788.

PA Vice-Pres.: Bob Wilson, 12612 Chilton Rd., Philadelphia, PA 19154. (215) NE 7-9435.

VA Vice-Pres.: Butch Pietrandrea, 3904 N. Forestdale Ave., Woodbridge, VA 22191 (703) 670-7431.

We now have 211 members in 31 states and Canada. Two new states are Idaho and North Dakota.

LETTERS TO THE EDITOR

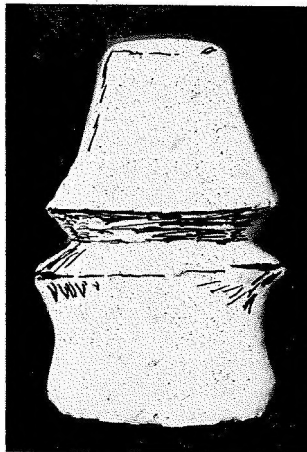
Dear Jim:

I cannot quite match Bob Wilson's tall threadless that was shown in C. A. but almost-Enclosed is a picture of one that I have just acquired that material-wise is a great deal like Bob's. It is a shiny white with pieces chipped off of glaze showing that it did not adhere very well. The hole is about 1 in. not quite round and looks as if it might have been reamed out in some manner. There are no mold marks and the wire groove shows enough wear to show that wire had been on it.

Anyway it is quite a prize. It came originally from Ohio. and was taken to California.

I have also gotten a hat shaped Elliot-So I have three styles of that brand now. All of this stuff will be in a supplement that I hope to get out in a month or so.

Gerald Brown.

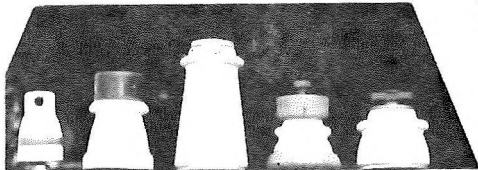


So, for the 65 people that set up at these two fall shows and the hundreds of collectors that attended I say thanks for your hard work.

Doug MacGillvary.

im--

On a recent European vacation, the following all porcelain insulators were presented to me by the Amsterdam Gas & Electric Facility. I phoned the company from downtown, and the No. 2 man, Jacob Heukelem, came out in a VW, picked me up and introduced me to the "wheels". I presented them with a Hem. miniature, which is now in their museum. Next day I was again picked up at my hotel, given a tour of all the facilities and given these insulators. I was very well treated.



Roy Licari

Thanks for the picture, Roy. It brings to light a need we will soon have for a cataloguing of the foreign insulators. I know there a few who specialize in foreign insulators and this would be a real help to them.

Dear Mr. Garrity,

I've just read Bob Wilson's article on grading insulators. I too have received insulators whose condition had been inaccurately described. This seems to be happening more frequently lately. The problem seems most severe with the so called very near mint and near mint categories. I agree with everything stated in Bob Wilson's letter except exchanging the word perfect for mint is not the ultimate answer.

Insulator hobbyists have a definitive, accurate, and easy to use classification system, CD numbers, which is just about standard now across the country. It's time to compliment this with an equally good method of describing condition and color. Perhaps the National Insulator Association (N. I. A.) can take on the project of devising a standard descriptive grading system along with a color chart perhaps having full size color photos.

Maybe the grading system could be something like this: (with photographs to illustrate various grades)

A - Mint (perfect)

B - Very near mint (barely visible minor imperfection)

B₁ scratch

B₂ ping

B₃ flake

B₄ other (describe)

C - Near Mint (very minor damage)

C₁ noticeable scratches

C₂ ping-surface, no glass lost, max. 1/8" diam.

C₃ flake or chip, max. 1/8" by 1/16" deep.

C₄ other (describe) ex.: inner skirt chip.

D - Damaged (describe in detail)

This is only a suggestion of what a grading system could be. Of course it must be simple and easy to use but to be of value it must accurately describe the insulator. Use of a word such as mint, perfect, excellent, etc. is of little use unless backed up by a commonly accepted definition of the word.

Like Bob Wilson, I strongly feel such standards are necessary if we are to continue the enjoyable hobby of insulator collecting. More and more, if the energy shortage (?) is for real, we are going to have to use the mails for selling and trading. My last three purchases through the mail, from reputable dealers, have been unsatisfactory because of inaccurate condition descriptions. We need new collectors to continue the hobby. Problems like this could quickly discourage them and hurt us all.

Coin collectors use defined grading standards illustrated with photos. Why can't we? It won't be easy and will cost some money but N. I. A. can save the day. What do you think.

_____ Sincerely, Al Beck

_____ Ashaway, RI

Dear Jim:

I just wanted to give a special thanks to a couple of people that really did a great job for their clubs and insulator collectors of the northeast.

First, Grant Barnes, who put together a beautiful show for the Capital District Insulator Club in Scotia, N. Y. on Oct. 6th.

Two weeks later Phil Harding of Mendon, Mass. headed up the Yankee Pole Cats Fall Show at the New England Electric Bldg. in Westboro, Mass. The facilities were excellent for an insulator show.

Dear Mr. Garrity,

I was wondering if you would do all of your readers a favor and publish a list of all insulator books in print up to date. I am trying to get a reference library worked up and, like most, want it to be complete. I have some of the more popular books such as Milhollands "Bible", Cranfill's & Kareafelas, Delling's, Stuart's etc. In time, I'm hoping to have every book ever printed on the subject of glass and porcelain insulator collection and identification.

Perhaps this could be a joint effort with CROSS ARMS readers, each contributing all titles he or she knows of? A list such as this cannot become static. It must change when new authors and their works appear on the market.

To promote a sound hobby, reference works on the subject are an essential, if not the most vital part of the process.

I hope you understand my feelings on this matter and perhaps in future issues print such a list as a helpful aid to all insulator collectors. Thank you for your time, I much appreciate your publication.

Michael L. Johnson
315 Crissey Ave
Geneva, IL 60134

* * * * *

Dear Michael,

I'm glad you mentioned the subject. When our February Subscribers Directory comes out, it will contain a list of all our subscribers along with those who

have asked to be listed under a speciality--an index of articles and pictures featured in 1973 CROSS ARMS--along with this we will add a list of available books written for the hobby and a list of all insulator clubs and their addresses. Any information you and any other subscriber can furnish us with will be greatly appreciated. But don't wait too long, February is almost here.

Editor.

* * * * *

Dear Jim:

The puzzle in the November issue was fun, so here's one with 45 porcelain items--either the names of manufacturers or the markings on the insulators. Names read in all directions (up, down, across, diagonally), and some puzzle letters may be used in several crossing names. Don't give up, I assure you all those names are in there somewhere.

Jack H. Tod, Phoenix

We want to thank Paul and Jack for their puzzles. I know a lot of time and effort went into them. We hope you enjoy them.

Editor

PUBLIK NOTICE

By popular request, starting with the February '74 issue, CROSS ARMS will have a "Junior Collectors Section." This section will be written by: Donald R. Welsh, Jr., 4 Bedford Way, Pittsford, NY 14534. The "Junior Collectors Section" will be composed of material submitted by young collectors. Any material you care to send will be gladly received by Donald.


A	L	O	L	F	W	O	L	A	T	S	O	P	U	G	L	A	D	C	O
M	A	C	O	D	E	F	S	I	H	E	N	O	R	K	A	U	E	N	B
C	V	D	C	K	S	D	R	D	M	W	O	F	C	R	Y	T	R	I	S
G	I	E	P	A	L	I	N	E	M	A	T	E	R	I	A	L	B	P	G
R	C	R	I	H	R	U	O	M	Y	E	S	D	N	A	S	S	A	P	O
A	N	A	T	C	O	O	R	N	A	D	D	E	F	I	N	D	L	A	Y
W	A	U	T	C	K	R	S	P	I	E	W	R	G	O	O	K	S	L	M
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D	A	S	B	S	S	L	O	T	E	T	L	L	N	P	T	O	H	I	C
I	I	R	H	A	U	K	E	X	C	R	P	I	N	C	I	E	S	T	N
S	R	S	O	M	O	B	I	L	A	I	P	R	T	A	W	B	P	F	A
O	E	C	J	O	H	N	S	M	A	N	V	I	L	L	E	T	I	D	H
N	P	T	C	H	G	A	E	R	D	R	A	O	O	N	D	P	T	I	C
G	M	C	O	T	N	R	E	C	R	I	E	P	C	S	Y	N	T	B	S
H	I	E	O	H	I	O	B	R	A	S	S	N	K	D	R	U	S	M	E
O	S	N	L	C	T	N	S	O	H	X	E	J	E	Y	E	Q	B	O	A
E	D	R	A	T	S	A	T	L	E	D	U	A	T	G	F	F	U	C	T
K	O	N	I	N	E	C	N	E	I	A	F	D	R	O	F	T	R	A	H
C	U	O	A	F	W	I	O	D	L	E	N	V	O	X	E	N	G	M	C
P	A	H	D	B	A	U	T	O	M	A	T	I	C	D	J	I	T	F	S

AKRON
 AMERICAN
 AUTOMATIC
 B-AND-O
 CHANCE
 COOK
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 IMPERIAL
 I-T-E
 JEFFERY-DEWITT
 JOHNS-MANVILLE
 KNOX
 LAPP
 LIMA
 LINE MATERIAL
 LOCKE
 MACOMB
 MCGRAW-EDISON
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NEW LEXINGTON
 OHIO BRASS
 O. P. CO.
 PASS AND SEYMOUR
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 PINCO
 PITTSBURG
 POSTAL
 P. P. INC.
 P. R. R.
 SOO
 SQUARE-D
 THOMAS
 VICTOR
 WESTINGHOUSE

MARKET NEWS

<u>Name</u>	<u>CD</u>	<u>Condition</u>	<u>Color</u>	<u>Price</u>
<u>San Diego, California Show</u>				
Cable	261	NM	aqua	\$30
Columbia (dated)	263	NM	green	34
CCG	130.7	M	straw	10
Castle	206	M	blue	150
	102	NM	dk olive	1.25
Brookfield	152		aqua	2
Agee	124.7	M	amber	5
W. E. Mfg. Co	126.4			4
Agee	152.9		SCA	15
Ca	200	M	SCA	200
Hem. D-990	137	M	aqua	5
Cal	133	NM	SCA	41
Agee	124.6	M	SCA	10

Springfield, Virginia Show

Hemingray	128.4	M	clear	25-30
O'Brian's Pat.	119	G		400
#4 Cable	267	M		90
Maydwell 19	162	M	milk	5
California	200	M	purple	190
NEGM	104	M	lt. green	4
Hemingray	257	M	pk. blue	90
Hemingray 19	162	M	amber	8-12
Pyrex	234	M	carnival	6-8
Pyrex	235	M	carnival	7
National	110.6	M	aqua	450
Transposit	788	repaired		250
Transposition	190/91	M	aqua	10

JOHN GARITY, OF EAST BIRMINGHAM, PENNA.
Excerpts from Patent No. 110,645, January 3, 1871

Figures 1 and 2 are side views of my improved telegraph-insulator, differing from each other only in the form of the head.

The insulator is made of solid glass by being pressed in a mold having suitable cavities, in any of the ways known to the art.

The part which is to be inserted into the telegraph-pole, cross-bar, or other support for the wires, is of a tapering cylindrical form, as shown at a.

On this I form, at the same time and in the same way the rest is formed, a screw-thread, a'.

The head b is grooved, as at b', for convenience in attaching the telegraph wire.

A solid glass insulator of the form described I have found to possess sufficient strength at all points for practical use, while it is simple in its construction, is made at small cost and is easily applied.

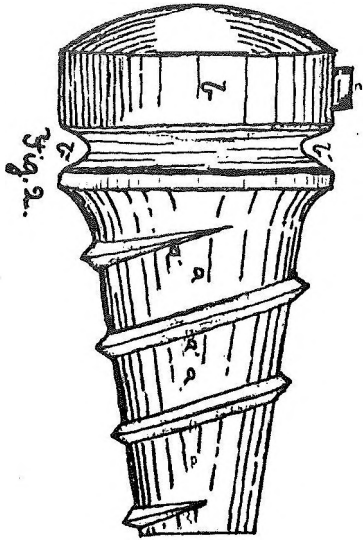
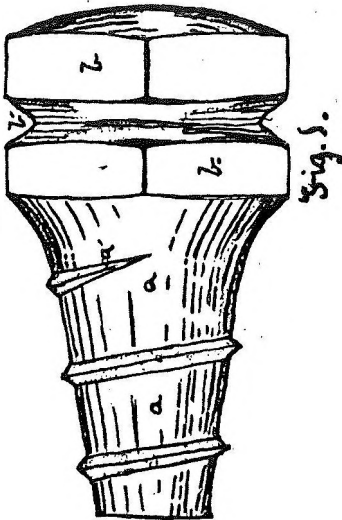
What I claim as my invention is--

A solid glass telegraph-insulator, having a head, b, grooved, and of form suitable for use with either a wrench or spanner, and having also a threaded pin, a, the face of which tapers from the base of the head to or toward the point.

J. GARITY.
GLASS TELEGRAPH INSULATOR.

No. 110,645.

Patented Jan. 3, 1871.



Witnesses:

R. C. Whiskell

Shoemaker

Inventor:

John Garity,
by Batewell, Lehnisty
his Attys.

KNOW YOUR COLLECTOR

Collectors of the Month are Gary and Dieline Coleman of 11206 Winde Ln., Lancaster, NY 14086. They have been collecting for about 6 years but only 4 years seriously.

Gary is presently an accounting student and Dieline is a registered nurse. They have two children.

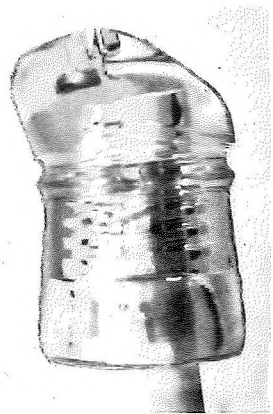
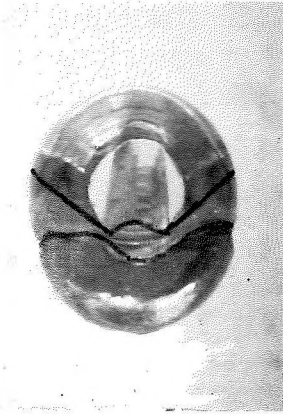
The couple has been elected Vice-President of the New York Chapter of the Eastern Insulator Club.

As you can see from the following pictures of their insulators, they specialize in "one of a kind".



Gary and Dieline Coleman. They are pictured standing beside their display at the Springfield, VA Show.

Collector of the Month.



Here is a top and side view of the JOHNSON & WATSON CD 109.7. The color is aqua and very clean. The pinhole has the Oakman style slotted threads.

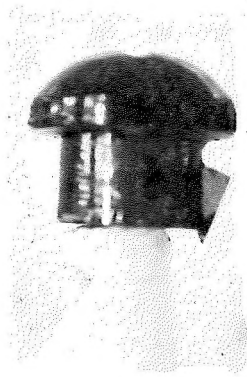
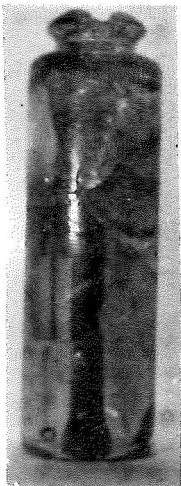


Left: a close up of the Buzby. Truly a unique piece and the only one know. Right: a clear Pyrex. No CD. This piece is unique in the fact that the dome above the wire groove is not round, but flat on the sides. It almost looks like they forgot to put the top groove in it.

Collector of the Month.



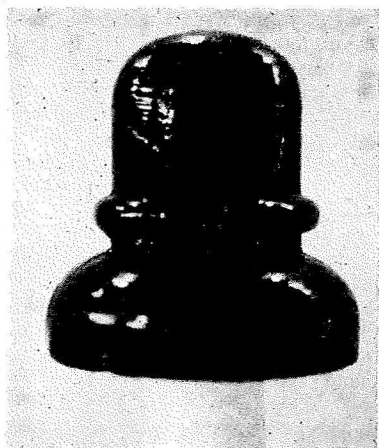
A C. D. 727 no name, in deep olive green
Because of the lack of space and the abundance of
many good pcs. we will show a close-up of Gary and
Dieline's show display in the Feb. issue



Left.. "The Slim Pin" from Forrest Jones of Ohio
aqua, no name, the unusal thing about this pc. is
that the metal pin is embedded into the glass.
Middle.. a lightning rod insulator, emerald green,
embossed.. Feb 5, 1850, from Edwin Wood of Sidney
N. Y. Right.. acobalt blue milk glass , Chicago
Diamond Groove, C.D. 135 from Leo Cadin of N. Y.

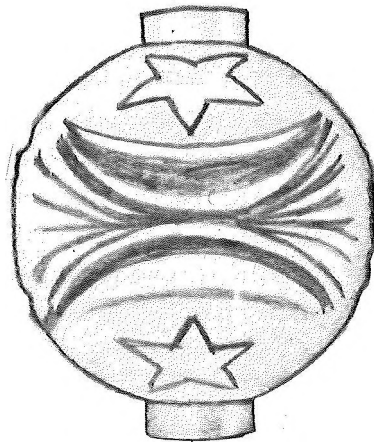


Left: A CD 244 purple "Cross Top" no name, from Rodney Wing of Michigan. Right: A threadless beehive same size as a CD 143, no name.



Left: a green amber, no name threadless from Graham Barnes of NY. Right: a black glass, no name threadless from Kerry Lavendoski of NY.

4½-Inch Glass Ball Ornament.



GOSHEN design. Aluminum cap. Furnished in the following colors:

No. 76. Opal

No. 77. Turquoise Blue

No. 80. Gold

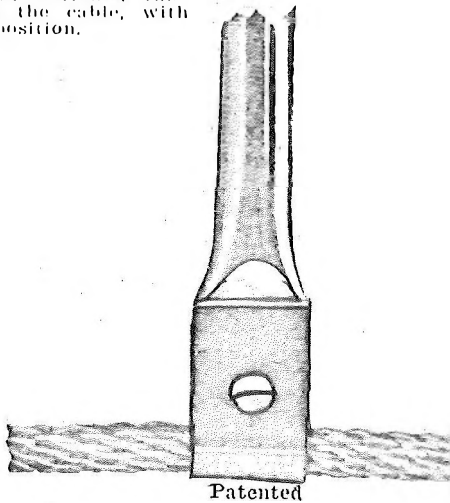
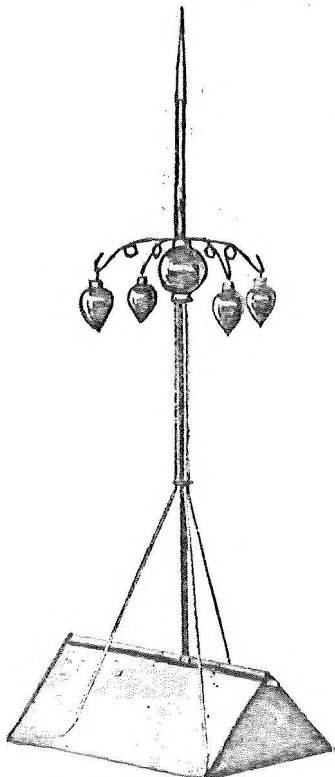
No. 78. Transparent Blue

No. 79. Transparent Ruby

No. 81. Silver

This illustrates the patented one-piece air terminal described on another page. Point is drawn on the tube, and the foot is fashioned in such a manner as to bolt to the cable. Thus there is but one connection instead of four as is the case with the old style of air terminal. This lessens the resistance and increases the efficiency of the installation.

At the bottom, an enlarged view of the foot of the patent air terminal. This shows the tempered and flattened tube bent around the cable, with the bolt in position.



DAVID BROOKS

David Brooks was born at Brooks Vale, Conn., Jan. 26, 1820. He was a descendant of Henry Brooks, of Cheshire, England, who migrated to America on the restoration of Charles II., his having fought under Cromwell rendering his presence in England offensive. At twenty Mr. Brooks was a teacher of mathematics in the United States navy. In 1845 he entered telegraphic service under Henry O'Reilly, and was connected with the putting in operation December 25, 1845, of the first commercial line in America, built between Lancaster and Harrisburg, Pa., the first message over which was received by him. It was the first message sent in Pennsylvania, and it is believed the first sent in the country outside of the Baltimore and Washington government experimental line.

In 1846 Mr. Brooks constructed the residue of the line of the Atlantic and Ohio Company, from Philadelphia to Pittsburgh, and sent the first message Dec. 25, 1846, across the Alleghanies from Pittsburgh to Philadelphia. In 1847 he constructed the first repeater, known as the button repeater, based on the Morse idea of the second or local circuit, and was used in the transmission of the speech of Henry Clay on the Mexican War from Cincinnati to New York.

In July, 1851, Mr. Brooks sailed for Mexico to construct the first telegraph in that country between Vera Cruz and the City of Mexico. In 1852, having completed his work in Mexico, he entered the service of the Pennsylvania Railroad Co. in the construction and management of its lines of telegraph for railroad uses. In 1856 he became Superintendent of the Atlantic and Ohio Telegraph Co., was appointed District Superintendent of the Western Union Co. in 1862, which he

held until 1867, when he resigned, and has since then devoted himself to the development of his inventions.

After several failures Mr. Brooks introduced an insulator, which bore his name, and which was, after many severe tests, found to be excellent and was largely used. The visit of Cromwell F. Varley, the English electrician, however, and the care he induced in reducing the resistances of the wires by careful selection of material and perfect joints, greatly removed the difficulty of insulation, and the simple glass insulator, double petticoated as it is called, has become all but universal. Mr. Brooks has latterly devoted his attention to underground telegraphs, and has visited Europe several times to watch the result of European methods. His system consists chiefly in the use of oil in the thorough saturation of cables, and which has been successfully employed in connection with the telephones of New York. In the center of the city, a cable containing 400 wires, so fine that they are enclosed in a diameter of $1 \frac{7}{8}$ ths of an inch, has been laid in iron pipes 2,480 feet in length, of an inside diameter of $2 \frac{1}{2}$ inches, and filled and saturated with oil, which have been for some time in successful use. Within half a mile 800 separate circuits have been thus established.

Mr. Brooks is President of two underground telegraph companies, and is Director in a third.

On June 14th, 1884, "An Act in relation to telegraph and electric light companies in cities of this State" was passed by the legislature of the State of New York which directed, with certain limitations, that telegraph lines be placed underground. The terms were mandatory, and yet definite. No legislator could indicate to the waiting companies how this was to be done,

or the well defined meaning of an "electric subway." There was no power designated to whom the execution of the law was to be entrusted, although some anxious men who stimulated legislative action were quite willing to "boss" the job.

On June 13, 1885, "An Act providing (chap. 499) for placing electrical conductors underground in cities of this State (New York), and for commissioners of electrical subways" was passed. This was more directive, and required the appointment of three commissioners was directed to be made within twenty days after the passage of the act, and the members of the commission were to be paid five thousand dollars a year each, to be collected from the telegraph companies. It was made the duty of this electrical commission "to cause to be removed from the surface all electrical wires or cables, and to require all duly authorized companies operating or intending to operate electrical conductors in any street to transact their business with underground conductors wherever practicable."

The commissioners appointed for New York were gentlemen, not one of whom had ever, even remotely, been connected with electrical affairs. The mandatory feature of the Act was nullified by the Act itself when it ordered that "said Board of Commissioners are to bear in mind the policy and purpose of this Act, which is to convert the overhead systems of electrical wires and cables to underground systems as soon as possible without impairing the efficiency of their service."

It is quite safe to say that if the worth gentleman appointed commissioners are to retain office until this is accomplished, their names may be placed on the permanent pay roll of the companies as a part of their

fixed charges.

And yet it remains true that, so far as the telegraph companies are concerned, could their wires be all placed underground it would be to them a vast advantage. It has already been done to a large extent. Nearly 1,000 telephone circuits are already underground. The Western Union Company alone has underground eight miles of iron pipes of from three to five inches diameter, enclosing 132 miles of wire, with a capacity of 500 more, and fifteen miles of pneumatic tubes for message distribution. Thus under the simple stimulus of economy and security, and the ever growing necessities of the service, the telegraph companies have been carefully doing what it has been deemed necessary to enforce by legislative action and the appointment of unskilled but well salaried gentlemen to direct.

The compulsory measures adopted with reference to New York have been repeated with more or less vigor in other cities. Washington, Philadelphia, Boston, Baltimore, Chicago and St. Louis have all been placed under the general demand.

The preceding article was reprinted from a book entitled "American Telegraphic History." It was written by James Reid (the father of the telegraph) in 1886.

David Brooks--how ironic. Here's a man who helped found the telegraph industry and a need for glass insulators from which our hobby started and also took an active part in starting to lay the underground cable which took away the need for overhead lines and insulators.

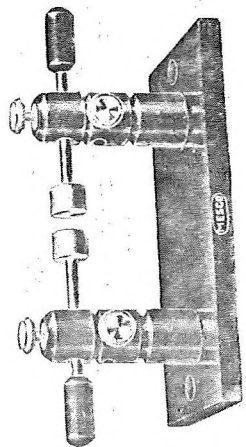
Editor.

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Instruments and

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110 West 42d Street

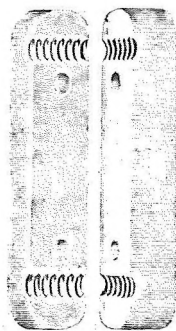
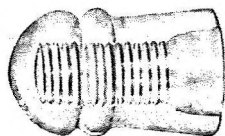
37 West 125th Street } Branches

CHICAGO: 138 Fifth Avenue

Miscellaneous

Wireless Accessories

Porcelain and Glass Insulators



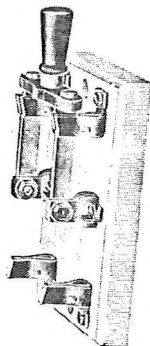
List No.

3930 Porcelain Cleats, Glazed, Per Pair. . . . \$0.04

3917 Pony Glass Insulator, Each.04

We carry a large stock of glass and porcelain insulators which are described in our Catalogue No. 24. This catalogue will be mailed upon request.

Aerial Switches



MOUNTED on porcelain base, which gives high insulation. Use No. 7103 switch for coils up to 1 in. spark, and No. 11740 for coils up to 2 in. spark and transformers up to 1/2 K. W. capacity. Diagram of connections with each switch.

List No.

7103 Double Pole, Double Throw. \$0.74

This company was evidently a distributor for insulators & other power and communications equipment and probably sold the CD 256 Manhattans found near Chicago. Note the MESCO logo on the spark gap shown on the cover, possibly this embossing exists on an insulator

Dan Rider
Buffalo, NY

NATIONAL INSULATOR ASSOCIATION

Ernie Rostock reports 486 members as of Nov. 28.

What's happening to the Regional Shows? As you know, the By-Laws state the NIA will sanction Regional Shows every year other than the Region where the National Show is held. This year would enable NIA to sanction a Western and a Central NIA Regional Show. Maybe the reason we've had no applicants is because the members in the Region aren't aware of this. ---Vice-Presidents take note. Also, it's not too early to think of next year's officers nominations, By-Law amendments, etc., other changes, new proposals et al. In the press of time at the 5th Nationsl, the great majority of this will have to be worked out ahead to accept if formally nominated and elected.

We---the officers of the NIA, and the NIA itself--- are entering the 2nd trimester of our 1st year. We can all be proud of our accomplishments to this point. Let's consider our objectibes over the remaining year:

1) Membership Acceptance Program. It has been suggested that all members be accepted until 1 January 74 in toto. After that, names of people who want to join could be printed in the Newsletter and if no objections were raised from the membership, within a 30 day period, they would be accepted. This would place some restrictions or safeguards on membership. I'm sure 99% would go through, but the occasional undesirable would be denied membership. Incidentally, we will keep our membership number form now on. The coin association does this and it has its advantages. Any objection or further suggestions on this membership acceptance plan? Unless objections are raised, let's implement this.

2) News. We have a little money in the Treasury now and I suggest some of it be spent on National publicity for the Insulator Hobby. Good publicity can be gotten without spending money of course. A news release to AP, UP, etc on selection site of 5th National should make the news and tell the general public about our hobby. Ray, of course, is in charge of this department. But, he will appreciate your efforts and aid here. The VP's, especially, should promote in their region. The more we make ourselves known, the more the hobby will grow.

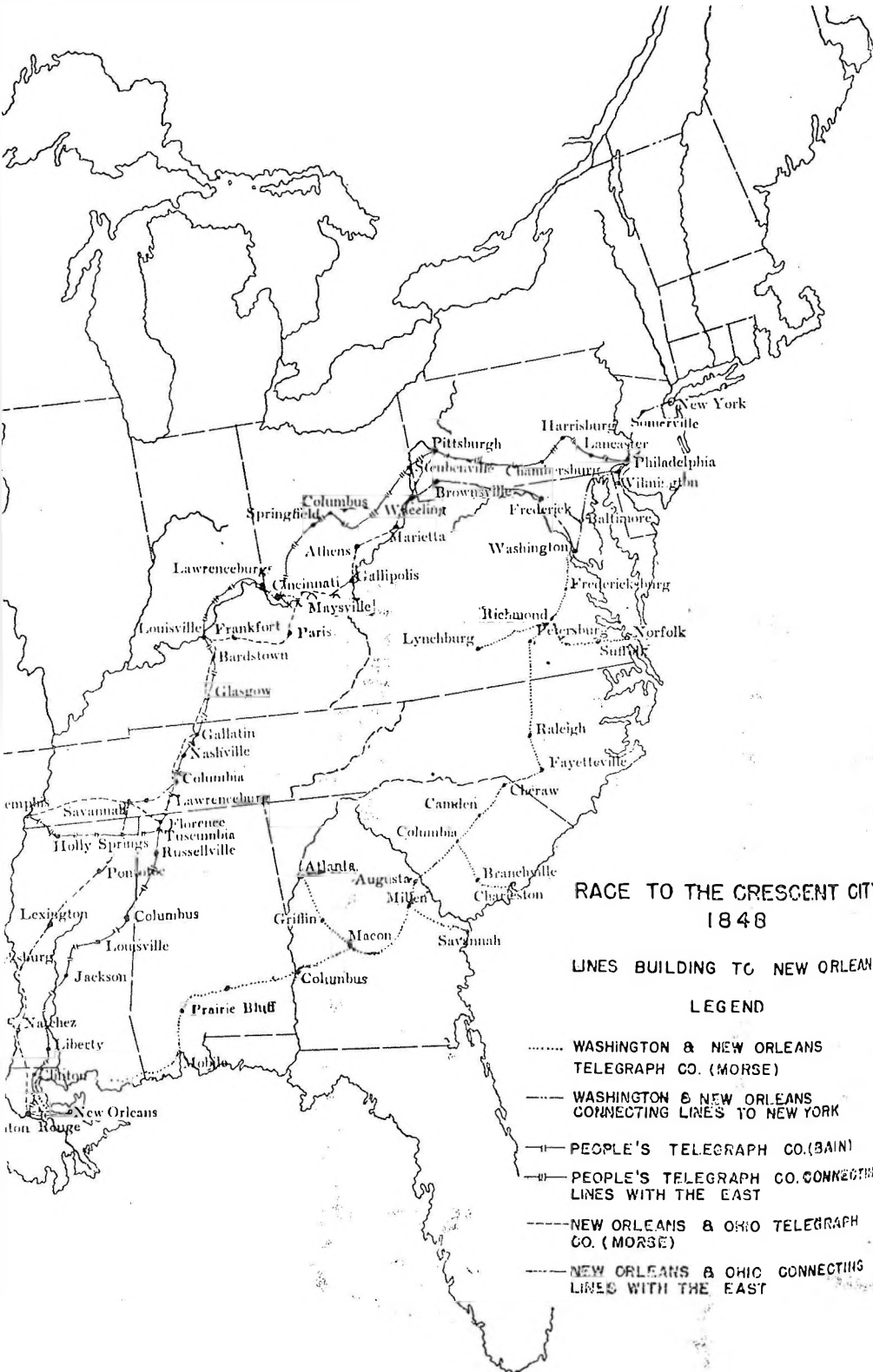
I have asked Warren Olsen to write up a history of the NIA. This history would have to involve the National Shows, sponsors, origins, attendance figures, etc. with any information in regard to this project., I'm sure he would appreciate it. Hopeful this may be ready for the 1st Newsletter, but if not we will definitely have it in the 2nd. This is type of news most interesting to our own members, and would make "good copy" for National news coverage. Warren, as our #1 NIA member, seems a natural to write this history, so thanks in advance, Warren, and we are all looking forward to it.

ATTENTION READERS

The Section "What's Happening in the N. I. A. " is printed so you may be in on the ground floor thinking of the N. I. A. and its officers.

Many of the items printed are items that are being considered for possible adoption by the Association. It's a sort of "thinking out loud" situation.

I'm sure your area V. P. 's will be glad to hear from you concerning your views, either pro or con.



RACE TO THE CRESCENT CITY 1848

Lines Building to New Orleans

LEGEND

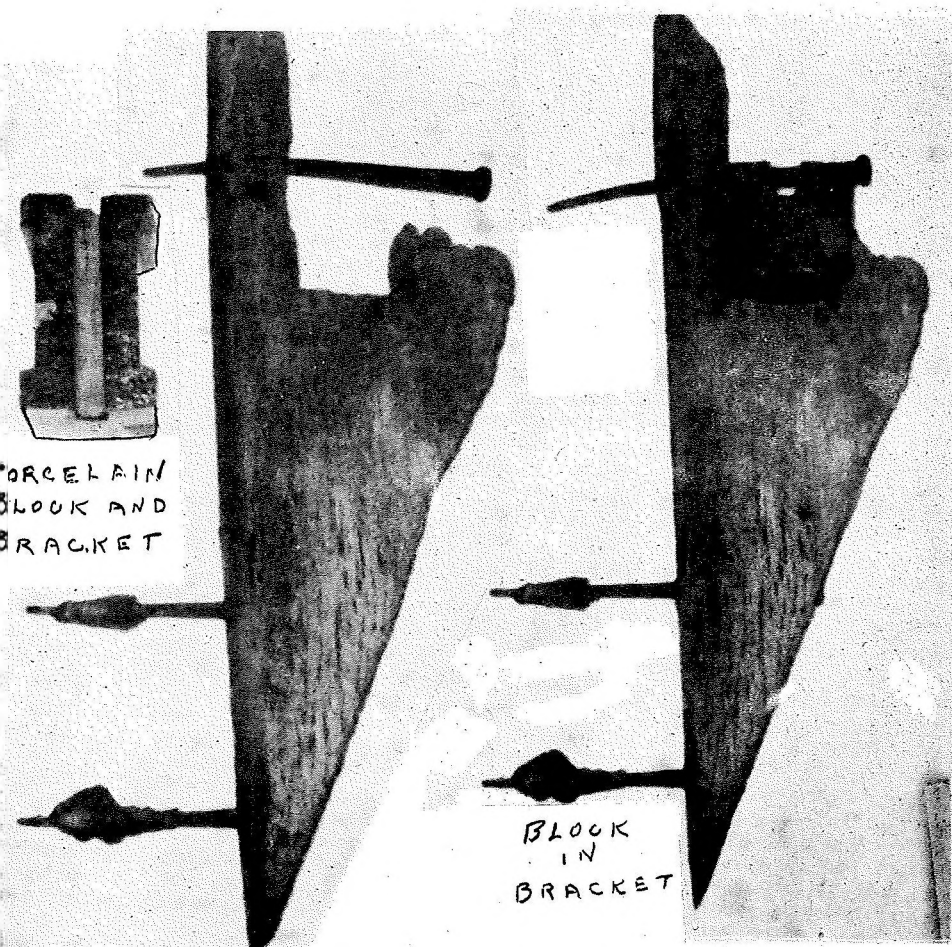
- WASHINGTON & NEW ORLEANS TELEGRAPH CO. (MORSE)
- WASHINGTON & NEW ORLEANS CONNECTING LINES TO NEW YORK
- +— PEOPLE'S TELEGRAPH CO. (BAIN)
- +— PEOPLE'S TELEGRAPH CO. CONNECTING LINES WITH THE EAST
- NEW ORLEANS & OHIO TELEGRAPH CO. (MORSE)
- NEW ORLEANS & OHIO CONNECTING LINES WITH THE EAST

Here are two photos of a porcelain block insulator and the holding bracket which have been found in the central California mountains.

This block reminds one of the glass blocks which are numbered C.D. 1000 by Woodward.

This item as well as many more new finds will be in Gerald Brown's Supplement to his "Second Edition Collectible Porcelain Insulators" which will be on the market after the first of the year.

The block picture from Ron Souza.



2ND ANNUAL SOUTHERN NEW JERSEY
INSULATOR SHOW

SATURDAY MAY 25, 1974

Moorestown High School, Moorestown, N.J.
Bottles, Lightning balls & Barbed wire welcomed

Set up time starts 8:30 A.M.

General admission 10 A.M. to 6 P.M.

Reservations by May 15 (postmarked) or add \$1.00
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143	Wythcomb, grayish--SCA, beehive, nm	65.00
162	H.G.Co., deep cobalt, <u>NDP's</u> , rare and mint	125.00
162	1678, tall dome, SCA, vnm, <u>NDP's</u>	75.00
160	Hawley, baby signal, aqua, mint	75.00
105	Chicago, teardrop pony, aqua, some damage	190.00
731	Unembossed McKee style, aqua, mint	90.00
731	Same as above but amber	195.00
102	Westinghouse 3, pony, almost a peacock blue, m	125.00
102	N.W.B.I.T., pony, nice SCA, mint	50.00
732	Unembossed LGT style threadless, aqua, vnm	135.00
131	Brookes on skirt, Tillotson on dome, aqua, nm	119.00

For a complete list send a SASE to Jack Riesselman,
1025 N. 63rd, Apt-B95, Lincoln, Nebr. 68505.

*
* YANKEE POLE CATS INSULATOR CLUB *
* SWAP AND SELL MEET *
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* Doug MacGillvary, 51 Avondale Rd. Manchester, *
* CT. 06040 Ph. 203-649-0477 *

All clean and mint: CD 102 S.F., aqua--\$3.00; CD 142 Hemingray TS2, carnival--\$9.00; CD 154 Mc Laughlin 42, clear-lt green--\$4.00; CD 161 California green--\$5.00; CD 162 Gayner No 36-190, aqua--\$5.00; CD 162 McLaughlin 19, aqua--\$2.50; CD 164 McLaughlin 20, aqua--\$2.50; CD 164 Maydwell 20, milkglass--\$7.00; CD 164 Maydwell 20, clear--\$2.00; CD 166 California, green--\$9.00. I pay postage and insurance. R. L. Bogart, P.O. Box 453, Ventura, Calif.

Insulator earrings--\$2.00 per pair. Toll or hoop skirt. Red, white, blue, green, amber, or purple. Please specify pierced or clip-on. Add 25¢ per pair for postage & handling. B. & C. Enterprises, 6815 Darby Ln. Springfield, VA 22150.

**5th NATIONAL INSULATOR SHOW and
N.I.A. MEETING
JUNE 29 - 30, 1974
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GENERAL INFORMATION**

Totally Air-Conditioned, Parking for 700 plus. -- Cars, Camp grounds situated in Hershey area,
Over 1,300 First-class accommodations within 10 minutes of convention center, Many Out side
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**SCHEDULE
FOR WEEKEND**

June 28 Dealers Set-Up 5:9:00 P.M. (Lower Level)
June 29 Dealers Set-Up 6:8:00 A.M. (Lower Level)
Open to General Admission - 8:00 A.M. - 5:00 P.M.

Saturday Nite - Cocktail Hour 6 - 7:00 P.M.
Dinner 7:00 P.M. (Sit-Down)
N.I.A. Meeting 8:00 P.M.
(In Adjoining Rm.)
No Admission Charge
Open to people interested in Collecting

June 30 Open to General Admission 8:00 A.M. - 5:00 P.M.

GENERAL ADMISSION PRICE

50¢ per person
Under 8 years old FREE

Security Guard provided both Friday and Saturday Nights
Ribbons to be awarded for displays by Crown Jewels, Cross Arms and
O.B.X. in following categories:

1. Lighting Rod Balls
2. Threadless
3. Best in Porcellin
4. Best in Color
5. Best in Shape

Show Trophy Awarded for Best Overall

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1. Please specify number of tables which you want reserved.
2. On dinner reservations please specify how many people and which meal you select.
3. If you wish to display please specify which category.

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CD 121	New Eng Tel & Tel Co, aqua	VNM	4.50
CD 128	Armstrongs CSC, lt. yellow	M	4.00
CD 134	No name, sea blue	M	8.00
CD 154	Whitall Tatum #1, SCA	M	4.50
CD 164	Brookfield, dk. olive	NM	5.00
CD 164	Lynchburg #38-sm. base, aqua	M	5.00
CD 165.1	Whitall Tatum #5, peach	M	5.00
CD 166.2	No name, aqua	M	5.00
CD 167	Owens, Illinois T/M, clear	M	4.00
CD 166.2	E. L. Co 1" dome chip, aqua		12.50
CD 190/91	Hemingray 50, ice blue, hazy	NM	5.00
CD 214	Whitall Tatum No. 10, clear	M	4.00
CD 216	Whitall Tatum 512U, amber	M	5.00
CD 238	Hemingray 514, clear	M	5.00
CD 239	Kimble 830, clear	M	5.50
CD 251	Hemingray 61, clear	M	7.00
CD 245	9200 (unemb. T-H), aqua	NM	75.00

Postpaid. Ted Church, Holcomb Rd., RFD 2, New Hartford, CT 06057.

PORCELAIN INSULATORS GUIDE BOOK FOR COLLECTORS, the standard reference for pintype porcelains. Universal Style Chart with all U-number scale drawings. Markings, company histories, prices etc. Hardbound, 206 pages, \$10 postpaid. Also Supplements A and B, \$1.95 each. From author Jack H. Tod (CA), 3427 N. 47th Place, Phoenix, AZ 85018.

Huge new 12 page list for beginner or advanced collector - lowest prices - satisfaction guaranteed. SASE Paul McManis, Route 1, Box 116, Excelsior, Minn. 55331 Phone (612) 474-3541.

WANTED TO BUY--All sellable telephone insulators. Semi to rare, best prices paid. Brad & Nancy Cook, 507 Ridge Rd., Lansing, NY 14882. Call (1) (607) 533-7515.

CHICAGO DIAMOND GROOVES- V. N. M. \$40.00, N. M. \$30, good \$20.00. Would trade in quantity for better glass. Jerry Durham, 14110 S. E. 172nd Ave., Clackamas, ORE. 97015.

Insulator list. Milkglass, purple, etc. Common to rare. Stamped envelope. Phil Balkan, 5860 Tobias Ave., Van Nuys, Cal. 91401.

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Want to join an established club 3 years old and going strong? Write Eastern Insulator Club, P.O. Box 195, Springfield, VA 22150 for information.

NEW LIST FOR LIST OR SASE. WANT CD 160's for collection. Also, trade for colored glass. Robert W. Gilbert, 245 Coldstream Dr., Frankfort, KY 40601.

TRADE- Glass or porcelain. Have GNW purples, Dominion 42 ambers, CD 133 O.V.G., No. 2 Columbia, others. Also, U-699 Cable, U 206 & 217 A transpositions, CPR beehives and exchanges, many more. Need bottom to brown porcelain U 225. Also feeder wire insulators, unusual shapes, slot tops. Need CD 102 Hemingray, CD 412 Hemingray, insulators with prism, others. Exchange lists. C. Fix, 776 Broadway, Darien Center, N. Y. 14040.

Gerald Brown's "SECOND EDITION"
of "COLLECTABLE PORCELAIN INSULATORS"

Not a supplement.

A COMPLETE guide for porcelain insulator collectors.

175 pages 8½" x 11" Plastic ring binding

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From Author Gerald Brown
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NOTICE: SUPPLEMENT B to "Porcelain Insulators Guide Book for Collectors" is now available. Price revisions, all newly added U-number shapes, markings, history. \$1.95 postpaid from author: Jack H. Tod (CA), 3427 N. 47th Place, Phoenix, AZ 85018.

FOR SALE: CD 150 Brookfield Aqua, Mint \$100.00ea.,
CD 218 Hemingray 660 Corrugated Base Clean Mint
\$2.00 ea., CD 168 Whithall Tatum #11 Light Aqua,
Mint \$8.00ea., CD 168 Whithall Tatum #4 Ice Blue,
Mint \$5.00ea. Postage and Insurance extra. Art
Kottman, 101 Namkee Rd., Blue Point New York
11715. Phone (516) 363-2090.

WANTED: Lynchburg insulators for my collection.
Need the following CD's 160, 164, 281, 306 and others
in different colors. Write Jim Barron, 6815 Darby
Lane, Springfield, VA 22150.

FORCE SALE- CD 162 McLaughlin 19 and Maydwells
various colors and drips. My choice all different if
possible. \$2.00 ea. ppd. 10 or more \$1.50 ea. ppd.
Special IN-56 \$1.50 ea. ppd. 10 or more \$1.00 ea.
ppd. Maury Tasem, 519 Verdin St., El Cajon, CA
92021.

Greenish Block with tiny bubbles. Near perfect,
minor common roughness on some of the sharp edges.
\$400.00 or nearest reasonable offer. You must be
satisfied or no deal. Sorry no trades. Forrest
Jones, Rt. 3, New Carlisle, Ohio 45355 (1) (513)
845-8306.

WANTED - CASH FOR- CD 160's, quantities of colored
glass, all saleable scarce insulators and small col-
lections. Robert W. Gilbert, 245 Coldstream Dr.,
Frankfort, KY 40601.

Insulators for sale at reasonable prices. Ambers,
purples and carnivals. S. A. S. E. for listing. I also
trade. Tony Petrarca, 5144 Mayview Rd., Cleveland,
Ohio 44124.

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CARNIVAL GLASS INSULATORS

SPOOLS

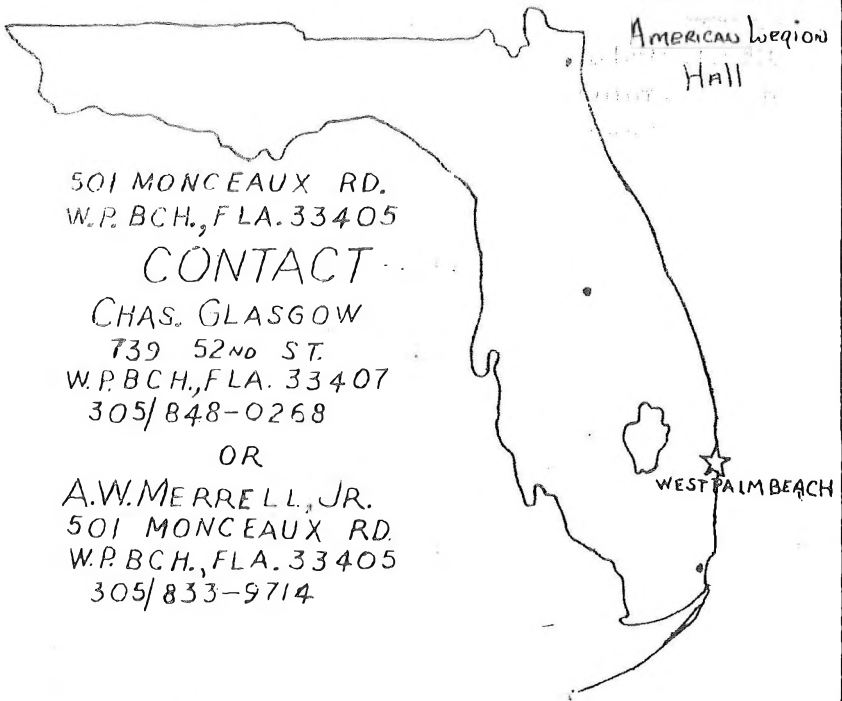
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2ND
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INSULATOR MEET

FEB. 9-10, 1974



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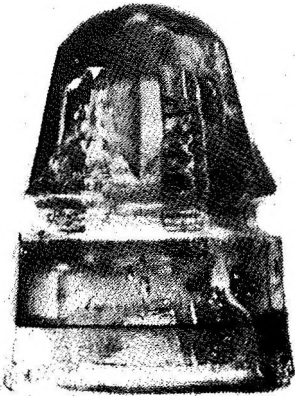
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CHAS. GLASGOW
739 52ND ST.
W.P.BCH., FLA. 33407
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This book represents nearly 7 years of research and collecting, and is the fifth book by the authors. In just two months it has been praised as one of the best books in the field by collectors, dealers and other authors. It contains 144 pages plus 13 pages of Price Trends. 600 insulators are beautifully photographed and arranged by company. The newly revised

CD numbers and a history of most companies with description and prices for nearly 1200 different insulators make this popular and a must for beginners as well as advanced collectors. \$6.00 P. P. or send a large S. A. S. E. for a free sample page and our latest list. California residents add 6% sales tax please. GARY CRANFILL, 5536 KEONCREST CL. #2, SACRAMENTO, CAL. 95841.

BLUE BELL PAPERWEIGHTS, Columbus, Ohio Pioneer Commerative. Embossed: Bell System (both sides); base embossed with Pioneer emblem and dated 1973. Only have a few. \$5.50 Postpaid. Jim Barron, 6815 Darby Lane, Springfield, VA 22150

Insulators sell slow during the holiday season. Therefore, I'm overstocked and will sell all insulators at wholesale! Rare, semi rare, colors, odd shapes and more. SASE. Jim Baird, 8107 Calico, San Diego, Cal. 92126.

6. In order to keep CROSS ARMS up to date we would like all reports on shows and swaps sent in no later than 45 days after the show has taken place.

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