MINUTES OF WINTER MEETING OF THE NATIONAL INSULATION MANUFACTURERS ASSOCIATION

January 13, 1960

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MINUTES OF WINTER MEETING
of the
NATIONAL INSULATION MANUFACTURERS ASSOCIATION
Biltmore Hotel New York, N. Y.
January 13, 1960

The meeting was called to order at 10:00 A. M. by E. H. Luchs, President of the Association, with the following in attendance:

Baldwin-Ehret-Hill, Inc. Trenton, N. J.	A. M. Ehret, Jr. K. M. Ritchie M. M. Wilson
M. H. Detrick Company Chicago, Ill.	T. S. Clousing E. A. Montmarquet
The Eagle-Picher Company Cincinnati, Ohio	G. J. Christner E. L. Gouedy
Fibreboard Paper Products Corp. San Francisco, Calif.	J. W. Cordrey
Forty-Eight Insulations, Inc. Aurora, Ill.	Ike Keith
Gustin-Bacon Manufacturing Company Kansas City, Mo.	F. W. Muller H. M. Grant Walter Gubar K. L. Sodergren
Johns-Manville Sales Corp. New York, N. Y.	J. B. Jobe M. W. Burleson W. D. Gaches D. L. Hinmon L. R. Hoff
Keasbey & Mattison Company Ambler, Pa.	Norman Barr
Mundet Cork Corporation North Bergen, N. J.	E. H. Luchs L. T. Choate

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Owens-Corning Fiberglas Corp. Toledo, Ohio	H. T. Williams E. C. Shuman
Pittsburgh Corning Corp. Pittsburgh, Pa.	R. E. Buckley
Pittsburgh Plate Glass Company Pittsburgh, Pa.	P. D. Kaley M. W. Keyes R. A. McLaughlin Orville Miller
Refractory & Insulation Corp. New York, N. Y.	F. T. Christenson
The Ruberoid Company New York, N. Y.	H. B. Hutten
Union Asbestos & Rubber Company Bloomington, Ill.	E. T. Johnson E. T. Plummer
Cadwalader, Wickersham & Taft Legal Counsel	M. L. Ruddock
Sumner Rider & Associates Publicity Counsel	Sumner Rider John Baer Oscar Shaftel
National Insulation Mfrs. Association	J. M. Barnhart R. C. Parlett

Messrs. Frank Christenson, N. L. Morell, R. R. Porter and J. C. Voiles had expressed regrets at being unable to attend.

APPROVAL OF MINUTES

A motion was made, seconded and passed

> That the Minutes of the Meeting of September 8, 1959, as bulletined by the Association office be approved.

A scroll was exhibited to the membership that will be presented to the family of the late Harry E. Lewis in recognition of his service to the industry.

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TECHNICAL & RESEARCH COMMITTEE REPORT

Mr. R. C. Parlett, Technical Advisor, reported on the activities of the Committee in accordance with the report attached hereto and made part of these Minutes.

ROCK & SLAG SECTION REPORT

Chairman K. M. Ritchie reported on the activities of the Committee in accordance with the Committee Meeting held on October 27, 1959. These Minutes are attached hereto and made part of these Minutes.

GLASS SECTION REPORT

Chairman M. W. Keyes reported on the activities of the Committee in accordance with the Committee Meeting held on October 29, 1959. These Minutes are attached hereto and made part of these minutes.

MOLDED SECTION REPORT

Chairman E. C. Shuman reported on the activities of the Committee in accordance with the Committee Meeting held on October 28, 1959. These Minutes are attached hereto and made part of these Minutes.

It was asked that the subject of standard thicknesses of insulation be placed on the Agenda for the next T & R Committee Meeting.

TRAFFIC COMMITTEE REPORT

Chairman K. L. Sodergren reported on the various activities of the Committee in accordance with the report attached hereto and made part of these Minutes.

STATISTICAL COMMITTEE REPORT

Chairman R. E. Buckley stated that the subject of statistical reporting would be discussed at the Board of Directors Meeting and that there was no report to be given at this time.

PUBLICITY COMMITTEE REPORT

Chairman E. L. Gouedy introduced Sumner Rider, Publicity Counsel, who reported as follows:

He began his report be redefining the objectives of the publicity campaign

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PUBLICITY COMMITTEE REPORT (cont'd.)

as follows:

1. Make NIMA the authoritative spokesman for the insulation industry.

2. Sell top management.

3. Educate and sell the engineer.

It was pointed out that when the agency first made its proposal to the publicity committee, and later to the executive committe, it was made perfectly clear that a minimum of six months would pass before first stories would be seen in trade magazines. Six months have passed without a magazine carrying a feature story, but a background of hard work which will result in stories in the months immediately ahead was recorded in a series of charts presented by the agency.

CHART I. This chart showed that the release about NIMA as "insulation headquarters" had been carried in at least thirty-nine trade magazines, and had produced approximately 50 inquiries directed to the NIMA office. The publications included those serving the heating and air conditioning industry, chemical, petroleum, power and many others.

CHART II. Union Electric Company has agreed to write an article under an engineer's byline reporting how Union Electric is putting the theory of economic thickness to work in a practical way. Statistics worked out by Union Electric cover pipe insulation thickness in 86 combinations of pipe diameter and operating temperature. The story has been discussed with one of the editors of ELECTRICAL WORLD, the best read, most widely circulated magazine for both utility management and engineers. ELECTRICAL WORLD IS INTERESTED IN THE STORY.

CHART III. The overall story, concerning all types of inorganic insulation with the uses and characteristics of each, has been approved and is being submitted to MILL & FACTORY. This is the hand-book issue of the publication to be printed in May.

CHART IV. Surface temperature pitfalls. The technical and research committee, at one of its meetings, spoke out strongly against the surface temperature approach, from which the agency conceived and now has written a story approved for release, tentatively for POWER magazine. It tells what's wrong with surface temperature when used as the sole guide to specifications, and gives positive reasons for the economic thickness approach.

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PUBLICITY COMMITTEE REPORT (cont'd.)

CHART V. A story about the Time-Life building in New York now is scheduled for an early issue of AIR CONDITIONING, HEATING & VENTILATING. The story is based upon personal inspection of the building by the agency, plus two sessions with the mechanical engineer, two with the heating and air conditioning contractor, and two with the insulation contractor. The story will be re-written for other publications.

CHART VI. "How I Specify Insulation" is the title of another byline article to be written by the Cleveland Electric Illuminating Company with the help of the agency. The story is planned for either ELECTRICAL WORLD or ELECTRIC LIGHT AND POWER.

CHART VII. The Long Island Lighting Company is constructing a new unit at its Port Jefferson station. We have taken some photographs. The job is in an early stage, and what is visualized is a step-by-step report as Long Island Lighting specifies and uses insulation. The story is perhaps a year away.

CHART VIII. Pennslyvania Electrical Association. Williams Burns of Long Island Lighting Company is an associate member of Pennsylvania Electrical Association, along with many other utility engineers in the east, and he is also chairman of the Thermal Insula t ion Sub-committee of the Association. Pennsylvania Electrical Association is midway in a series of three surveys of its members to find out how and why they specify and apply thermal insulaion. The surveys cover piping and equipment under 600°F; over 600°F; and for feed-water heaters and other equipment. The surveys will be available for reporting by SR&A.

Consideration also is being given to sponsoring a round table between PEA and NIMA technical research committees. The discussion would be sponsored by one of the major utility magazines, perhaps ELECTRICAL WORLD & POWER.

CHART IX. Eddystone Station. This is a story being followed closely. It is about insulation by Philadelphia Electric which may be specified according to economic thickness or surface temperature.

Other leads which are being followed actively:

1. Standard Oil of New Jersey
2. Calco Chemical Company.
3. One at the University of Michigan.

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PUBLICITY COMMITTEE REPORT (cont'd.)

An enlarged dummy of a 16-page booklet titled, "Re-thinking Insulation", was shown, briefly explained, and passed around to members for review and comment.

The first part of the book is written for both top management and engineers, and the latter part of the book is technical in character and is intended exclusively for the engineer. It was received with enthusiasm. Copies of the publication are expected to be available for distribution at the May meeting of NIMA.

It was asked that the letter dated August 17, 1959, regarding the submission of names of mechanical engineers and others in a position to specify insulation for the compilation of a mailing list, be sent to the Board of Directors for their consideration.

REMARKS C

Mr. Ruddock
Commission
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ADJOURNMI

There being no further business, the meeting was adjourned.

Respectfully submitted

J. M. Barnhart

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TECHNICAL & RESEARCH COMMITTEE REPORT

Since the fall meeting report the activities of this committee have covered the following:

ASTM C-16 Committee Meeting, September 28 - 30 at Pocono Manor, Pa. Material specifications prepared by NIMA T & R Committee were discussed and acted upon as follows: Approved by final letter ballot of C-16 were specifications on (1) Calcium Silicate Block, (2) Calcium Silicate Pipe Insulation, (3) Mineral Wool Block & Board for Low Temperatures, (4) Mineral Wool Hydraulic Setting Cement, (5) Magnesia Cement and (6) Diatomaceous Cement. Other NIMA prepared specifications were approved by subcommittees and sent to C-16 for final letter ballot action included (1) Mineral Wool Blanket & Felt for Low Temperatures, (2) Mineral Wool Blanket & Felt for High Temperatures (3) Mineral Wool Insulating Cement, (4) Asbestos Insulating Cement. A specification on Low Temperature Molded Mineral Wool Pipe Insulation was sent to subcommittee S-I for vote. A proposed first draft of specification on Expanded Polystrene Block was distributed to S-1 members. Specifications covering Methods of Test for Breaking Strength of Pipe Insulation, Drop and Impact Tests for Blocks, Corrosion of Steel by Wet Cement, and Sampling and Mixing Insulating Cement, are in various stages of consideration by sub-committees.

Sub-committee S-VIII on General Standards of Insulation has requested that standards or a recommended practice be established on insulation dimensions such as O. D. of pipe insulation for nesting purposes, also that squareness of ends and joints in mating pipe insulation sections and squareness of blocks be established. These properties are now being studied by the T & R Committee for this purpose.

T & R Committee Meetings were held in New York, October 27 Rock & Slag Section, October 28 Molded Section and October 29 glass Section. Detailed reports for each section will be given later by the respective chairmen. Further action on some projects common to all three sections would include the following - The Special Committee on Thermal Conductivity Calibration composed of the three T & R Section chairmen is working up a preliminary plan for these tests subject to modification when it is submitted to the participating laboratories.

National Bureau of Standards New Conductivity Test Apparatus - Mr. Barnhart wrote Henry Robinson of the Bureau on November 12 asking whether there was any way in which NIMA could assist in furthering the work on this apparatus. He learned that Henry Robinson is on a 6 months leave of absence for his health which would seem to delay any action.

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ASHRAE GUIDE - Chapter 32 - Table of Conductivities - Each of the three sections of T & R Committee have made recommendations for revisions of their class materials and Mr. Barnhart has received approval by questionnaires on about 90% of the 40 different materials and forms listed. The other materials are being held up until some members have made further tests. However, Mr. Barnhart has found that the revision will not be required for the next ASHRAE meeting which will allow further time to complete this work.

Explanatory Note to Accompany Heat Loss & Surface Temperature Tables - This note explaining the fallacy of surface temperatures, etc., was approved in general by the T & R Committee members. Two suggested additions, one explaining the need for surface temperature determinations where condensation may occur on low temperature insulations and the need for heat transfer coefficients in determining temperature drop in flues, ducts, etc., will be considered at the next T & R Meetings.

Corps of Engineers Spec & Test Requirements for Underground Conduits - Mr. Barnhart wrote to the Corps of Engineers on November 18 asking them to hold up the final draft of this specification until members had an opportunity to study it as there had been complaints from both insulation manufacturers and contractors regarding the specification particularly in the number of tests required at outside laboratories. The industry's comments on this specification is awaiting replies from the Association's members before it can be again discussed in Committee.

ASME Annual Meeting November 30 - December 4 at Atlantic City, N. J. - Mr. Parlett represented the Association. Several papers involving insulation of direct interest to NIMA members were heard, and copies are being secured for Association members. One of these papers was on the design and construction of Freeport Sulphur's 35,000 foot calcium silicate insulated under-water sulphur line. A large number of papers were presented on recent advances in boiler and power plant equipment design. Indicating advances in steam pressure and temperature were several papers on the research, design and testing of the 5,000 psi 1,200 F plant of the Philadelphia Electric Company.

ASHRAE New York Chapter Meeting - October 27 Talk by R. R. Voorhees of the Armstrong Cork Company on "Insulating With Plastics". This talk, illustrated with slides, reviewed a number of case histories where low temperature insulation of various kinds had apparently failed to prevent condensation due to incorrect design on the part of architects or engineers, because of placing of equipment design of structure, etc. Armstrong have had built for them according to their research's design a recording physchometer which they place in typical plants and buildings to gather continuous data on variations in temperature and humidity of spaces to be used as

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a basis for future design of low temperature installations. At some future date when this data is assembled they will probably report it for general use. This appears to be an ambitious and expensive program of field testing. After the technical talk, they presented Armaflex plastic tube insulation.

Data For Publicity Articles, Etc. - Messrs. Barnhart and Parlett had several conferences with Messrs. Baer and Shaftel in which technical information was furnished for future articles. Three articles for MILL & FACTORY, POWER and one on Time-Life Building were reviewed and suggestions offered. The article on the Pitfalls of Surface Temperature in Determining Insulation Thickness was the result of discussion in the last T & R Committee meeting in which the prevalence of surface temperature usage was shown by specifications of a large utility in which thicknesses were based on surface temperature rather than economics. Mr. Baer suggested the article be written. Since the Fall Meeting Mr. Barnhart assisted by Mr. Parlett have answered a number of technical inquiries received by the Association from consumers.

Respectfully submitted

R. C. Parlett, Chairman

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REPORT FOR MEETING JANUARY 13, 1960
NIMA TECHNICAL COMMITTEE - ROCK & SLAG SECTION

In addition to items already reported, the customary activity on specifications can be reported.

In the Federal category, we have only one item namely, transmission to Standards Division of GSA, a request from one member company to delete from the specification on Mineral Wool Block and Board for Elevated Temperatures, the water vapor adsoprtion requirement, as not being needed for elevated temperature service. Judging from the usual speed at which requests are handled, we will expect a reply in six or more months.

In the ASTM category, there are ten product specifications on the books with another in process, which affect rock and slag wool. Of these ten revised drafts four have been completed within the Section in cooperation with the Glass Section which is usually directly concerned also. These have been circulated for ballots, three in Sub-committee and one in the main C-16 Committee. The results will be available at the next C-16 meeting in March.

Three other ASTM specifications have had preliminary work on revisions. In the case of two of these, it was suggested that they had become of relatively small importance and might be dropped, but a questionnaire indicated they should be retained.

The C-16 ballot on the Specification for Mineral Wool Hydraulic-Setting Insulating - Finishing Cement received several negative votes, but these have been resolved and the draft recommended to the Society for adoption as a Tentative. We hope that this year will finally see this specification go on the books, especially since the Military version (2781-c) has been delayed until the ASTM draft is completed.

Through Jack Barnhart, the Table on Thermal Conductivity of Industrial Insulation in Chapter 32 of the ASHAE Guide has been reviewed, and revised nomenclature and conductivity values offered for some of the rock and slag wool products listed. It was recommended that Hydraulic-Setting Insulating Finishing Cement be added to the list.

The thermal conductivity values listed here are stated in the accompanying test to be "typical and useful for engineering calculations". The majority of the Rock and Slag Section members have recommended that this be changed to "design values" and the table so labelled. However, this was not unanimous, some felt that the values should be specification values and made consistent with those in the ASTM specifications which are limits rather than design values. We believe this may warrant further consideration by the membership.

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The Rock & Slag Section also has a very keen interest in the Technical Committee programs on Thermal Conductivity Testing and the Heat Loss Calculations which have not yet been organized to the point where a report can be made. We anticipate covering the revision of the remaining specifications during the coming year.

Respectfully submitted

K. M. Ritchie, Chairman

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