PLAINTIFF'S EXHIBIT
U-492

MINUTES
of the
ANNUAL MEETING

NATIONAL INSULATION MANUFACTURER'S ASSOCIATION

Williamsburg, Va. November 7, 1971

The meeting was called to order by President P.D.Kaley, with the following in attendance:

Certain-Teed/St.Gobain Valley Forge, Pa.	B.Leaman G.Hauller W.W.Pitkin
Johns-Manville Sales Corp. New York, N.Y	R.E.Naylor R.Stapleton
Keene Corp. Princeton, N.J.	M.E.Roache
Owens-Corning Fiberglas Corp. Toledo, Ohio	J.P.Korn J.F.Vyverberg D.Glasser
Pittsburgh-Corning Corp. Pittsburgh, Pa.	R.Gaenzle
PPG Industries Pittsburgh, Pa.	P.D.Kaley J.Brownell
Cadwalader,Wickersham & Taft	W.B.Alcorn
NIMA	J.M.Barnhart

APPROVAL OF MINUTES

A motion was made, seconded, and passed that the Minutes of the Spring Meeting of April 26, 1971, as bulletined by the Association be approved.

TRAFFIC COMMITTEE REPORT

In the Chairman's absence, J.M.Barnhart read his report as follows:

In our report of April 1971, we advised protest had been filed with the southwestern and middle-western rail carriers who were seeking a 25 percent increase in rates on insulating materials. In August of this year the rails approved a 15 percent increase. We again protested and the rails agreed to hold their record in abeyance and granted us further hearing. In September we held both formal and informal meetings with the rail representatives and made a counter proposal offering to establish increased rates within the southwest and middle-west up to 700 miles if the rails would not increase any other rates. We have just received word the carriers will consider the matter again at their December meeting.

I should like to take this opportunity to thank the members of the Traffic Committee who have been a great deal of help in fighting the proposed rail increases.

STATISTICAL COMMITTEE REPORT

J.M.Barnhart reported that he had contacted Price Waterhouse & Co. concerning the reporting of pre-engineered systems on a monthly, lump sum basis, and that the cost would be $500. per year. He was asked to investigate the costs involved to have a C.P.A. collect and disseminate NIMA'S statistics.

PUBLICITY COMMITTEE REPORT

Chairman B. Leaman reported that the Committee had not met since there were no projects to be considered to date.

AIR HANDLING SYSTEMS COMMITTEE REPORT

R.E.Naylor reported on the activities of the Committee in accordance with the Minutes of their Meeting, which is attached hereto and made part of these Minutes.

PRE-ENGINEERED SYSTEMS COMMITTEE REPORT

J.P.Kern reported on the activities of the Committee in accordance with the Minutes of their Meeting, which is attached hereto and made part of these Minutes.

COMMERCIAL & MECHANICAL SYSTEMS COMMITTEE REPORT

B.Leaman reported on the activities of the Committee is accordance with the Minutes of their Meeting, which is attached hereto, and made part of these Minutes.

It was decided that duct wrap would be the responsibility of the Commercial and Mechanical Systems Committee. R.Dingly, C-C, M.Mikulak, J-M, and C.E.Ernst, J-M, were added to the Committee roster.

D.Glosser reported on a study O-C had made on economic thickness which indicated that thickness of thermal insulation should be upgraded. He estimated the cost of revising the economic thickness tables to be $15,000. It was agreed that this study should be undertaken and that D.Glosser and J.Barnhart were to write to Ohio State University and W.Va. University outlining the specific work to be done, and ascertain the cost.

POWERPROCESS SYSTEMS COMMITTEE REPORT

M.E.Roache reported on the activities of the Committee Meeting of September 30, 1971.

MEDICAL-SCIENTIFIC COMMITTEE REPORT

In the Chairman's absence, J.M.Barnhart read his report as follows:

> The Medical and Scientific Committee has been active in initiating and monitoring research projects into the health aspects of fibrous glass. The investigators are Doctors Clark Cooper and Doctor Leroy Balzer, University of California; Doctor Paul Gross, Industrial Health Foundation; and Professor Joseph Cholak, Kettering Laboratory.
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> Doctors Cooper and Balzer -- University of Calif.
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> All field work and report writing have been completed on the projects sponsored with Dr. Cooper's group. The manuscripts on "Exposure of Insulation Workers to Airborne Fibrous Glass" and "Fibrous Glass Lined Air Transmission System: An Assessment of Environmental Effect" have been completed and approved. "Exposure of Insulation Workers to Airborne Fibrous Glass" has already been published in American Industrial

Hygiene Association Journal, February 1971, Volume 32, #2. The three remaining projects' manuscripts - "Occupational Health Study of Sheet Metal Workers", "Fibrous Particles in Ambient Air", and "Electron & Light Microscopic Indentification of Glass Fibers in Ambient Air" - have undergone several revisions. At the present time the final revisions of these three manuscripts are being staffed within the Committee. It is anticipated that within a month they will be in publishable form.

Professor Joseph Cholak -- Kettering Laboratory

Professor Cholak's study on "Erosion of Fibers from Installed Fibrous Glass Ducts" was published in February 1971 in the Archives of Environmental Health. This completed our work with Professor Cholak.

Doctor Paul Gross -- Industrial Health Foundation

Doctor Gross has completed and published his preliminary study on the inhalation of sub-micron diameter fibrous glass in the Archives of Environmental Health in the June 1970, Volume 20 edition - "The Pulmonary Reaction to High Concentrations of Fibrous Glass Dust - A Preliminary Report". Inasmuch as the final report of this study will involve only the addition of the observation that the inhalation of fibrous glass has not resulted in the development of lung tumors, it is planned to incorporate it with the clearance study in normal and emphysematous rat lungs. The two projects still to be completed are: (1) a study of the lymphatic transport of fibers in human lungs, which is progressing well; and, (2) a study of the clearance of fibrous glass dust in normal and emphysematous lungs, which has been underway for some time, is also progressing well. Both of these studies should be completed in approximately eight months, and the manuscripts submitted for publication.

No further animal work with regard to the health aspects of fibrous glass is anticipated at this time.
The activity of the Committee in the coming year is expected to be devoted to a modest feasibility study to determine if an epidemiological study of fibrous glass workers to include clinical, medical and x-ray data and exposure concentrations should be carried out. Other activities will be to assist the Industrial Health Foundation as needed with the revision of their bulletin "Health Aspects of Fibrous Glass".

HEALTH & SAFETY COMMITTEE REPORT

In the Chairman's absence, J.M.Barnhart reported as follows:

1. On May 10, 1971, C.L.Sheckler and J.M. Barnhart attended a hearing in Albany, N.Y., pertaining to the banning of sprayed asbestos insulation.

2. The Committee was successful in having "Fibrous Glass Insulation:Health Hazard Resolved" printed in the ASHRAE Journal.

3. On September 21, 1971, C.L.Sheckler, and J.M.Barnhart attended an Asbestos Information Association seminar on the Occupational Safety and Health Act.

4. On October 19, 1971, C.L.Sheckler attended a hearing in Waukegan, Illinois pertaining to the banning of sprayed asbestos insulation. Earlier in Chicago, Illinois, the INCA testified to the effect that any fibrous material constituted a hazard to the public. C.Sheckler's testimony reiterated the fibrous glass story.

5. During the summer Consumer Bulletin came out with an article stating that fibrous glass represented a health hazard. NIA wrote to them and enclosed the ASHRAE Journal article as well as the green brochure.

6. Recently NIOH received a request from the Center for Political Review for the green brochure. They said they were investigating possible health hazards involving unions.

7. NIOH is to print in their November issue of the NIOH Outlook a revised version of the ASAIH Journal article.

8. The National Institute of Occupational Safety and Health is developing criteria packages for toxic substances, including asbestos and fibrous glass.

It was recommended that consideration be given to hiring a consultant in this field.

REPORT OF NOMINATING COMMITTEE

E.Lemon reported that the Nominating Committee proposed the following slate of officers to be placed in nomination for the year 1972:

President	R.E.Taylor
Vice President	J.P.Helm
Treasurer	J.P.Wyverberg

A motion was made, seconded, and passed -

That the Slate of Officers as proposed by the Nominating Committee be elected.

[illegible]

ADJOURNMENT

There being no further business, the meeting was adjourned.

Respectfully submitted

J. M. Barnhart