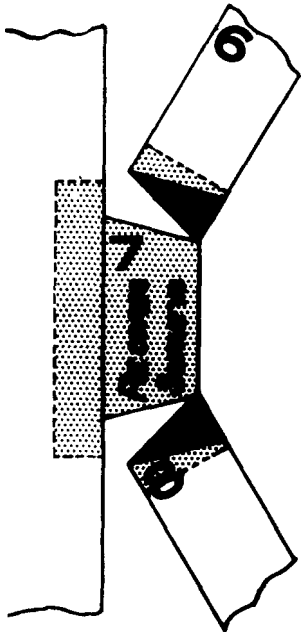


**HOW TO USE
THESE SEPARATORS**

Use one page for
each separation.

Select appropriate
tab, add further
identification if
desired, and cover
it with scotch
tape.

Cut off and discard
all tabs except the
one covered by tape.



DIRECTIONS TO THE CENTER

The Center of Adult Education is located on the western edge of the College Park Campus at the intersection of Adelphi road, University Boulevard (M.D. Route 193), and Campus Drive. College Park and the eastern edge of the University Campus are on U.S. Route 1. Exit 27 South on the Capital Beltway (Interstate Route 495) provides easy access to U.S. Route 1 and University Boulevard.

The AIRPORTS which serve this area are listed in their order of convenience to the University.

BALTIMORE-WASHINGTON INTERNATIONAL

Contact the Airline Limousine, Inc. dispatcher for direct transportation to the Center. Limousine fare is approximately \$4.00 per person.

WASHINGTON NATIONAL

Contact the Greyhound Airport Service (393-3060) dispatcher for limousine service to the Sheraton-Silver Spring Hotel (589-5200), 8727 Colesville Road, Silver Spring, Maryland. Limousine fare is approximately \$4.00 per person with pick-up 10 minutes after the hour, operates daily 6:00 a.m. - 8:00 p.m. Guests coming to the Center of Adult Education transfer to a taxi at that point. The taxi rate is approximately \$3.00 per person. A direct line for taxi service is located in the lobby of the Sheraton-Silver Spring for your convenience.

The direct taxi rate to the Center for one person is approximately \$10.00.

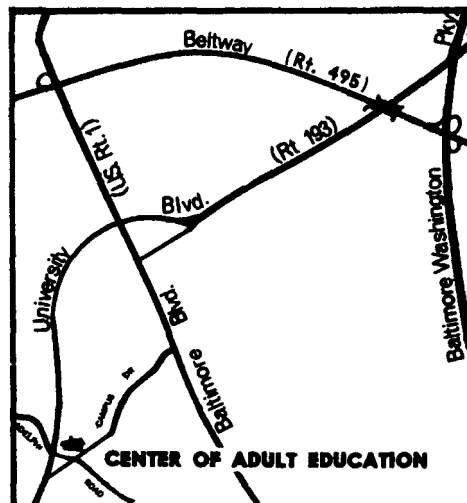
DULLES

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LIMOUSINE SERVICE USUALLY LEAVES AIRPORTS WITHIN 30 MINUTES OF FLIGHT ARRIVALS.

PARKING

Participants may use the parking lot adjacent to the Center. There is an entrance to the lot off Campus Drive and another from the eastbound lane of University Boulevard (Md. Rt. 193).



→ ORLK

#18

**National Institute for
Occupational Safety and Health**

presents

*This is part of the asbestos
story. Same one should go.*



**Symposium on Occupational
Exposure to Fibrous Glass
June 26 - 27, 1974**

THE UNIVERSITY OF MARYLAND
UNIVERSITY COLLEGE CENTER OF ADULT EDUCATION
CONFERENCES AND INSTITUTES DIVISION
COLLEGE PARK, MARYLAND 20742
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**University of Maryland
Center of Adult Education**

SYMPOSIUM ON OCCUPATIONAL EXPOSURE TO FIBROUS GLASS

June 26-27, 1974

PURPOSE AND SCOPE

Evaluation by the staff of the National Institute for Occupational Safety and Health of the scientific literature regarding the health effects of occupational fibrous glass exposure has indicated a gap in our knowledge of this material. For this reason, the *SYMPOSIUM ON OCCUPATIONAL EXPOSURE TO FIBROUS GLASS* has been planned to highlight the results of various studies and experiments involving fibrous glass and their application to occupational health. An important aspect of the Symposium will be to provide a forum for meaningful dialogue among the participants.

The program will be divided into four key subject areas

- Fibrous Glass Technology
- Environmental Sampling Methods and Results
- Effects on Experimental Animals
- Effects on Humans

PROGRAM SCHEDULE

Wednesday, June 26, 1974

A.M.

- 8:00- 9:00 Registration
Lobby, Center of Adult Education
Welcome to Symposium
Dr. Marcus Key, Director, NIOSH
- 9:00- 9:10 Purpose and Scope
Mr. Vernon Rose, Director, Office of Research and Standards Development, NIOSH
- 9:40-12:30 **SESSION I**
CHAIRMAN — BOBBY F. CRAFT, NIOSH
- 9:40-10:00 "Fibrous Glass—Manufacture, Use, and Physical Properties"
F. L. Pundsack, Johns-Manville
- 10:00-10:20 "History, Processes, and Operations in the Manufacturing and Uses of Fibrous Glass—One Company's Experience"
Harry V. Smith, Owens-Corning Fiberglas Corp.
- 10:20-10:40 "History of the Uses/Applications of Fibrous Glass"
John M. Barnhart, Thermal Insulation Manufacturers Association, Inc.
- 10:40-11:00 Coffee/Tea
- 11:00-11:20 "Aerodynamic Considerations; What is a Respirable Fiber of Fibrous Glass?"
Robert L. Harris, Jr., University of North Carolina
- 11:20-11:40 "Aerodynamic Considerations and Other Aspects of Glass Fibre"
V. Timbrell, MRC Pneumoconiosis Unit, Llandough Hospital, Penarth
- 11:40-12:00 "Deposition of Fibrous Glass in the Human Respiratory Tract"
Morton Lippmann, New York University Medical Center

P.M.

- 12:00-12:30 DISCUSSION
- 12:30- 1:30 LUNCH
- 1:30- 4:30 **SESSION II**
CHAIRMAN — JEREMIAH R. LYNCH, NIOSH
- 1:30- 1:50 "Cyclone Sampling of Fibrous Glass Aerosols"
Harry J. Ettinger, University of California, Los Alamos Scientific Laboratory
- 1:50- 2:10 "Environmental Data: Airborne Concentrations Found in Various Operations"
J. LeRoy Balzer, Utah International Inc.
- 2:10- 2:30 "Sampling Strategy, Air Sampling Methods, Analysis, and Airborne Concentrations of Fibrous Glass in Selected Manufacturing Plants"
Morton Corn, University of Pittsburgh
- 2:30- 2:50 "Environmental Aspects of Fibrous Glass Production and Utilization"
John M. Dement, NIOSH
- 2:50- 3:10 "Environmental Exposures to Fibrous Glass"
Duncan A. Holaday, Mount Sinai School of Medicine
- 3:10- 3:30 Coffee/Tea/Soft Drinks
- 3:30- 3:50 "Results of Environmental Air-Sampling Studies Conducted in Owens-Corning Fiberglas Manufacturing Plants"
Jon L. Konzen, Owens-Corning Fiberglas Corp.
- 3:50- 4:30 DISCUSSION

Thursday, June 27, 1974

- 8:40-12:30 **SESSION III**
CHAIRMAN — A. WALTER HOOVER, NIOSH
- A.M.
- 8:40- 8:55 "Effects of Fibrous Glass in the Lower Respiratory Tract of Guinea-Pigs"
Susan K. Botham, Sussex, England
- 8:55- 9:10 "Pathological Findings Following the Injection of Glass Fibre Into the Pleural and Peritoneal Cavities of Rats and Mice"
J. M. G. Davis, Institute of Occupational Medicine, Edinburgh
- 9:10- 9:25 "The Effects of Intratracheal Instillation of Glass Fiber of Varying Size in Guinea-Pigs"
Marvin Kuschner, SUNY at Stony Brook
- 9:25- 9:40 "The Effects of Fibrous Glass Dust on the Lungs of Animals"
Paul Gross, Naples, Florida
- 9:40- 9:55 "An Investigation of the Irritant Properties of Inhaled Beta-Cloth Fibrous Dust Both Alone and in Combination with Low Concentrations of HCl or Trichloro-trifluoromethane"
Charles C. Haun, University of California, Dayton, Ohio
- 9:55-10:20 Coffee/Tea

- 10:20-10:40 "Results of Animal Carcinogenesis Studies After Application of Fibrous Glass and Their Implications Regarding Human Exposure"
F. Pott and F. Huth, University of Dusseldorf
- 10:40-11:00 "Studies of the Carcinogenic Effects of Fibre Glass of Different Diameters Following Intrapleural Inoculation in Experimental Animals"
J. C. Wagner, MRC Pneumoconiosis Unit, Llandough Hospital, Penarth
- 11:00-11:30 DISCUSSION
- 11:30-11:50 "Some Cutaneous Effects of Fiberglass Exposure"
Eldred B. Hessel, Columbus, Ohio
- 11:50-12:10 "The Cutaneous and Ocular Effects Resulting From Worker Exposure to Fibrous Glass"
James B. Lucas, NIOSH
- P.M.
- 12:10-12:30 DISCUSSION
- 12:30- 1:30 LUNCH
- 1:30- 5:30 **SESSION IV**
CHAIRMAN — J. WILLIAM LLOYD, NIOSH
- 1:30- 1:50 "Human Epidemiologic Studies With Emphasis on Pulmonary Effects"
H. M. D. Utidjian and W. Clark Cooper, Tabershaw/Cooper Associates, Inc.
- 1:50- 2:10 "The Results of Human Epidemiologic Studies and Their Significance"
Ahmed N. M. Nasr, Eastman Kodak Company
- 2:10- 2:30 "The Results of Human Epidemiologic Studies and Their Significance"
Gerrit W. H. Schepers, Lebanon, Pennsylvania
- 2:30- 2:50 "The Results of Human Epidemiologic Studies and Their Significance"
J. W. Hill, Pilkington Brothers Limited
- 2:50- 3:10 "The Results and Significance of Human Epidemiologic Studies"
Paul Gross, Naples, Florida
- 3:10- 3:30 Coffee/Tea/Soft Drinks
- 3:30- 3:50 "The Results of Human Epidemiologic Studies and Their Significance"
George W. Wright, Denver, Colorado
- 3:50- 4:10 "TIMA's Health Research Program in the Insulation Industry"
Jon L. Konzen, Thermal Insulation Manufacturers Association, Inc.
- 4:10- 4:30 "Mortality Patterns Among Fibrous Glass Production Workers — Provisional Report"
David Bayliss, NIOSH
- 4:30- 5:10 DISCUSSION
- 5:10- 5:30 SUMMARY OF SYMPOSIUM RESULTS
I. Tabershaw, Tabershaw/Cooper Associates, Inc.