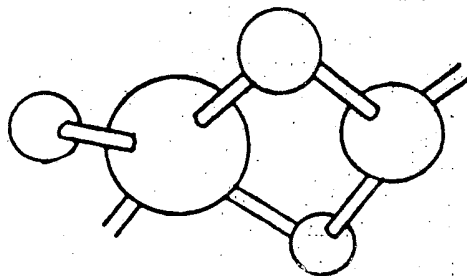


TOPICAL WORKSHOP

TRANSPORT PROPERTIES OF POLYMERS: Recent Research and Applications

sponsored by

**Division of Polymer Chemistry, Inc.
American Chemical Society**



March 15 - 18, 1987

Lakeway Inn near
Austin, Texas

Chairmen:

Dr. D. R. Paul and Dr. W. J. Koros
Department of Chemical Engineering
The University of Texas at Austin
Austin, Texas 78712
(601) 266-4871

Schedule for Topical Workshop

TRANSPORT PROPERTIES OF POLYMERS:
Recent Research and Applications

Sunday, March 15, 1987

3:00-9:00 PM Registration
7:00-9:00 PM Cocktail Reception

Monday, March 16, 1987

7:00 AM Breakfast
8:30 AM Opening Remarks, D. R. Paul
8:40 AM H. B. Hopfenberg: "Molecular Factors Influencing Sorption and Diffusion in Polymers"
10:10 AM Coffee Break
10:30 AM S. A. Stern: "Relationships Between Molecular Structure and Gas Transport Properties for Silicone Rubber Polymers"
12:00 NOON Lunch
1:15 PM H. B. Hopfenberg: "Physical Aging and Its Effects on Diffusion and Sorption in Glassy Polymers"
2:00 PM S. A. Stern: "Gas Sorption and Transport Near the Glass Transition Temperature"
2:45 PM Break
3:15 PM W. J. Koros: "Hysteresis in Transport Properties of Polymers Caused by Exposure to High Pressure Gases"
4:45 PM Break
7:00 PM Dinner

Informal discussions after dinner.

Tuesday, March 17, 1987

7:00 AM Breakfast

8:30 AM D. R. Paul: "Gas Sorption and Transport in Multicomponent Polymers"

10:00 AM Coffee Break

10:30 AM W. J. Koros: "Material Selection for Gas Separation Membranes"

12:00 NOON Lunch

1:30 PM D. R. Paul: "Effect of Molecular Orientation on Transport Properties"

3:00 PM Break

5:00 PM Poster Session* - Wine and Cheese

7:00 PM Dinner

*Posters by participants are invited.
Informal discussions after dinner.

Wednesday, March 18, 1987

7:00 AM Breakfast

8:50 AM J. L. Duda: "Application of Free Volume Theory to Devolatilizations of Polymers"

10:00 AM Coffee Break

10:30 AM Ronald Foster: "High Barrier Plastics Packaging"

12:00 NOON Lunch

1:30 PM Michael Quah: "Asymmetric Membrane Formation Processes"

3:00 PM Break

•Tours of laboratories at The University of Texas used for research related to this workshop can be arranged for those interested in experimental techniques.

ACS Polymer Division Topical Workshop

TRANSPORT PROPERTIES OF POLYMERS:
Recent Research and Applications

March 15 - 18, 1987

Lakeway Resort Area near
Austin, Texas

This workshop will deal with the transport of small molecules in polymers. It will begin with a basic introduction of principles and practices. This will be followed by discussions of recent research on factors affecting the solubility and diffusion of gases, vapors, or liquids including: polymer molecular structure, glassy or rubbery state, crystallinity, molecular orientation, low molecular weight and polymeric additives, plus sorption and thermal history. Current theories for describing these effects will be used to interpret the most recent experimental results in these areas. The workshop will emphasize the following applications of polymer transport behavior: barrier or packaging materials, gas separations by membranes, and devolatilization.

The Workshop will be held at the Lakeway Inn, 101 Lakeway Drive, Austin, Texas 78734 (512)261-7300. This charming resort is located 20 minutes west of Austin and 40 minutes from Austin International Airport, serviced by over 30 airlines. The Inn offers well appointed comfortable rooms with recreational amenities which include: golf, tennis, boating, swimming, riding and hiking. The location on Lake Travis in a countryside setting of lush greenery makes this resort and excellent site for a Workshop.

Registration Fees are \$695 - Single, \$585 - Double (Two Registered Participants only), \$275 - Accompanying Guest. The fees include: Registration, Room for 3 nights, Breakfast, lunch and dinner for 3 days beginning with the evening of arrival and ending with lunch on the final day, reception and coffee/soda breaks, all taxes and gratuities. To register, please COMPLETE the registration/reservation form below and mail with either full payment or a \$100 deposit to Jane C. Vogl at the address indicated below. Deadline for Registration is January 5, 1987. The Division is not able to accept CREDIT CARDS. Personal checks, travellers checks or cash are welcome.

_____ Single \$695
_____ Double \$585 (2 Registered participants only)
_____ Accompanying Guest \$275

NAME: _____

ADDRESS: _____

ARRIVAL DATE: _____ DEPARTURE DATE: _____ TEL: _____

Please mail to: Jane C. Vogl, Division of Polymer Chemistry, Polytechnic University,
333 Jay Street, Brooklyn, NY 11201, (718)643-5752.