

FILE NAME: Brakes (BRK)

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Sands Hotel & Casino
Atlantic City, NJ
October 20-22, 1986

**4th Annual Colloquium on Brakes
& Engineering Display**

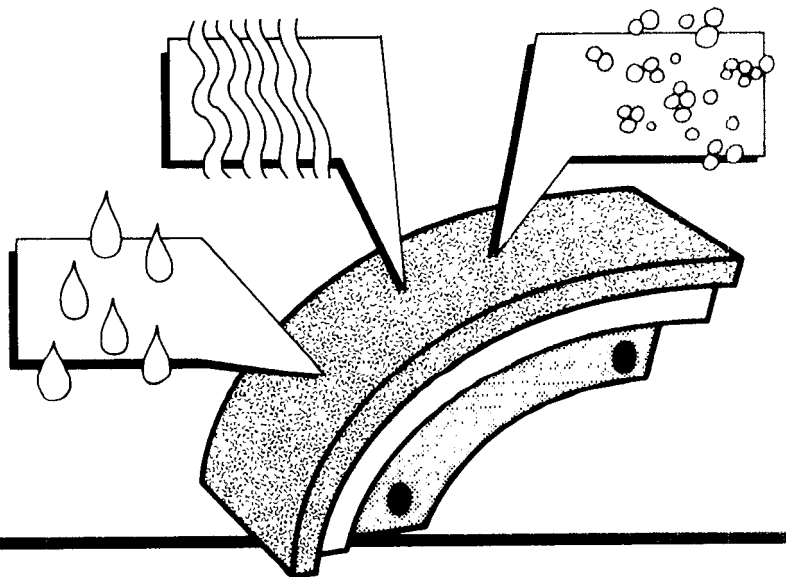
400 Commonwealth Drive, Warrendale, PA 15096

SAE
The Engineering Society
For Advancing Mobility
Land Sea Air and Space

4th Annual Colloquium on Brakes & Engineering Display

**Sands Hotel & Casino
Atlantic City, NJ**

October 20-22, 1986



SUMMARY PROGRAM

Sunday, October 19

4:00 p.m. Early Bird Registration

Monday, October 20

8:00 a.m. Registration
 9:00 a.m. BC1—Toxicity of Materials
 12:00 noon—6:00 p.m. Exhibit Reception
 1:30 p.m. BC2—Raw Material Philosophy

Tuesday, October 21

8:00 a.m.—9:00 a.m. Exhibits
 9:00 a.m. BC3—Issues and Philosophies
 11:00 a.m.—2:00 p.m. Exhibits
 11:30 a.m.—1:00 p.m. Luncheon
 1:30 p.m. BC4—Concepts and Technologies
 4:30 a.m.—6:00 p.m. Exhibits

Wednesday, October 22

8:00 a.m.—12:00 noon Exhibits
 9:00 a.m. BC5—Aftermarket Brake Friction Products

BRAKE ENGINEERING DISPLAY

THE SANDS HOTEL & CASINO— ATLANTIC CITY, NEW JERSEY October 20-22, 1986

An educational and technical display will be presented at the Fourth Annual Colloquium on Brakes as a means of providing attendees with information relative to recent developments and engineering advancements within the brake industry.

1986 SAE BRAKE ENGINEERING DISPLAY (Exhibitors as of July 21, 1986)

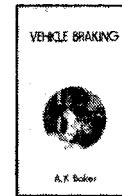
Plan to visit the Display and meet representatives from:

COMPANY	BOOTH
Alfred Teves Technologies, Inc.	13/14
American Metal Fibers, Inc.	26
Asbury Graphite Mills, Inc.	7
Ashland Carbon Fibers	18
Delco Moraine Div., GMC	1
Engelhard Corporation	22
W. R. Grace & Company	23
Hitco	20
Link Engineering	19
Lonza Inc.	15
Monsanto Company	2
Phosphate Fiber	
Pyron Corporation	21
Rockwell Lapinus B.V.	9
USG Apco	3
US Gypsum Co.	24
Valeo Friction Materials	8
Jim Walter Resources, Inc.	25

EXHIBIT HOURS:

Monday, October 20 12:00 Noon—6:00 p.m.
 Luncheon Reception
 Tuesday, October 21 8:00 a.m.—9:00 a.m.
 11:00 a.m.—2:00 p.m.
 4:30 p.m.—6:00 p.m.
 (Reception at close of afternoon session)
 Wednesday, October 22 8:00 a.m.—12 Noon

PUBLICATIONS



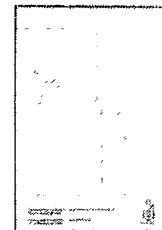
A comprehensive look
at brakes and
braking systems

Vehicle Braking

This information-packed publication provides a comprehensive look at the construction and operation of virtually all of the braking systems in use today. Vehicle Braking gives practical, detailed descriptions of the fundamentals of braking, drum and disc brakes, and hydraulic and air braking systems. There are twelve chapters included in B506 Stopping; Braking; Leading and Trailing Shoe Brakes, Other Car Drum Brakes; Basic Hydraulic Systems; Car Disc Brakes, Braking Medium Weight Vehicles; Heavy Truck Brakes; Air braking Systems, Special Purpose Brakes; Braking System Refinements; and Braking Equipment in Service. Published by Pentech Press Ltd. Written by A. K. Baker. Distributed by SAE only in the Western Hemisphere ISBN 0-7273-2202-8, 347 pp., 12 Chapters, Hardbound 1986.

\$38.50 Member and List

Order No. B506

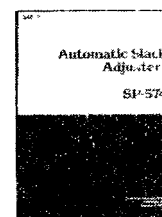


Anti-Lock Braking Systems for Road Vehicles

This publication includes up-to-date information on the anti-lock braking systems of all types of road vehicles. Contents include Anti-Lock System Performance Under Winter Conditions - What Should be Required?; Testing Anti-Lock Braking Systems - the Early Years, Legislative Effects on Design of Anti-Lock Brake Systems, The Potential and the Problems Involved in Integrated Anti-Skid Brake Systems; Low Cost Anti-Lock for Hydrostatic Braking Systems; Anti-Lock Systems for Trailers; Commercial Vehicle Braking Performance with Anti-Lock, The American Experience with Anti-Lock on Heavy Vehicles, Development of Anti-Lock Braking Systems for use on Motorcycles, and Limited Slip Braking. Published by I.Mech.E. (U.K.). Available from SAE only in the Western Hemisphere. ISBN 0-85298-567-3, 276 pp., 20 Papers, Paperbound 1985.

\$68.00 Member and List

Order No. MEP226



Automatic Slack Adjusters

Contents Include: The Importance of Maintaining Air Brake Adjusters. A Comparative Overview of Automatic Slack Adjuster Hardware, Performance Effect of Brake Adjustment, How Automatic Brake Slack Adjusters Perform in the Real World of Trucking; Overview of Ryder's Automatic Slack Adjusters; and Evaluation of Automatic Slack Adjusters. ISBN 0-89883-345-0, 36 pp., 6 Papers, Paperbound 1984

\$17.00 Member \$20.00 List

Order No. SP574

To order: Write SAE, Dept. 405, 400 Commonwealth Dr., Warrendale, PA 15096 U.S.A. or telephone (412) 776-4970

MONDAY, OCTOBER 20

BC1

Copa Room
8:30 a.m.

TOXICITY OF MATERIALS

Chairman—*Dan McLaughlin*, Schenectady Chemicals

Opening Remarks—*Marv Weintraub*, Engrg. & Mfg. Staff, Ford Motor Co.

Attapulgit—A Review of Current Health Research

Robert I. Leighton, Mgr., Health & Safety, Engelhard Corp.

Toxicity of Fiberfrax

Jerry Barrows, Carborundum

Inhalation Carcinogenesis Study of Wollastonite in Rats

Ernest E. McConnell, Dir., Toxicology Res. & Testing Program, Natl. Inst. of Environmental Health Sciences

Health Effects of Fibrous Glass, Mineral Wool, and Ceramic Fiber

Jon Konzen, Chairman, Medical and Scientific Committee, Thermal Insulation Mfrs. Assoc.

Low Cost Option to Asbestos Fibers

Barry Z. Schacter, Pres., Hedman Resources Ltd.

Inviro and Invitro Study of Phosphate Fibers

Rashmi Nair, Monsanto

Planned by Brake Colloquium General Committee

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BC2

Copa Room
1:30 p.m.

RAW MATERIAL PHILOSOPHY

Chairman—*Al Indelicato*, Friction Prod. Div., Abex Corp.

European Toxicology Philosophy

Willie Hartung, Laxabruk

Graphite Manufacturing

W. M. Goldberger, Superior Graphite

Thermal Stability of Modified Phenolic Resins

Frank D. Blum and *Daniel O'Connor*, Dept. of Chemistry, Drexel Univ.

Franklin Fiber

M. J. Skurauskis, *Dr. George Wright*, M.D., US Gypsum

Lapinus Rockfill in Friction Materials

Representative, Rockwool Lapinus

Brake Lining Applications of Phosphate Fibers

Dr. John A. Hinkebein, Monsanto

Asbestos Regulatory Update

Bob Pigg, Asbestos Info. Assn./NA

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Oral Only

TUESDAY, OCTOBER 21

BC3

Copa Room
8:30 a.m.

ISSUES AND PHILOSOPHIES

Chairman—*Phil Dougherty*, Friction Div. Prod.

Position of European Non-Asbestos Friction Linings

Dr. Wolf Savary, Textar

Problems Faced With Raw Materials in Brazil

Ali El Hage, Cobreq

Worldwide Multiple Sourcing Capabilities

Robert Carlson, American Steel Fiber

Applying SPC in Manufacturing Environments

John Dornick, Raymark Corp.

Relationship Between QC and People Training

Frank Vogel, RHT, Inc.

Comparative Testing

Roy Link, Link Engrg.

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LUNCHEON

States Ballroom

11:30 a.m.

All Brake Colloquium attendees are invited to attend a luncheon on Tuesday, October 21, in the States Ballroom located on the second floor of the Sands Hotel. The price of the luncheon is included in the registration fee.

Arnold Weintraub of Basile, Weintraub, and Hanlon is the principal speaker. He will address "Employment Contracts—Who Owns Whom?"

TUESDAY, OCTOBER 21

BC4

Copa Room
1:30 p.m.

CONCEPTS AND TECHNOLOGIES

Chairman—*Mike Jacko*, Allied Auto. Tech. Ctr.

Control of the Friction Mixing Process by Power Consumption Measurement

Tom Resing, Littleford Brothers Inc.

A New Method for Determination of Characteristics for Braking Force Regulator

Milan Bogdanovic, The Institute "Kirilo Savic", and *Nenad Janicijevic*, Mech. Faculty, Univ. of Belgrade

The Integrated Road-Dynamometer Brake Test Concept

Harald Abendroth, Jurid Werke, Allied Automotive

Onboard Data Acquisition

Bill McIntosh, Abex Corp.

Measurement of Interface Temperatures During Braking

S. A. Barber and *J. M. Tuten*, Battelle Columbus Div

Disc Brake Pads: Analysis of Cold Performance Results on Advanced Non-Asbestos Friction Materials

Dr. Daniel Benoit and *Paul Harrigan*, Valeo

Hot Spotting

Arnie Anderson, Ford Motor Co.

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WEDNESDAY, OCTOBER 22

BC5

Copa Room
8:30 a.m.

AFTERMARKET BRAKE FRICTION PRODUCTS

Chairman—*Dr. Jim Trainor*, R & D Director, Brake Systems, Inc.

PANELISTS:

Norman Abbott, Certified Brakes

Jim Lewis, UPS

Robert Nelson, Abex Corp.

Randy Petresh, Rockwell Intl.

Richard Radlinski, National Highway Traffic Safety Admin.

Jim Trainor, Brake Systems, Inc.

Planned by Brake Colloquium General Committee

The Brake Committee of the SAE Technical Board is responsible for sponsoring the Fourth Annual Colloquium on Brakes.

SAE The Engineering Society
For Advancing Mobility
Land Sea Air and Space

Frank Walter President
Harold Brock Treasurer
Max E. Rumbaugh, Jr. Executive Vice President

GENERAL INFORMATION

HOTEL RESERVATIONS

The Sands Hotel and Casino, Indiana Avenue and Brighton Park, is located just off the Atlantic City Boardwalk and will once again host the conference. Rates for the rooms have been set at \$70.00 for a single, double, or double/double room. Please make your reservations in writing—DO NOT CALL. State in your letter that you are attending SAE's Colloquium on Brakes & Engineering Display—otherwise, your request may not be filled. Confirmation will be sent directly to you. To obtain reservations, use the hotel form included in this program.

IMPORTANT . . .

Cut-off date for reservations is September 30, 1986.

CONFERENCE REGISTRATION

All persons attending the conference must register and obtain a badge. Pre-registration may be handled by utilizing the form included in the program. To register in advance the form must be received by SAE on or before OCTOBER 1, 1986.

ADVANCE CONFERENCE REGISTRATION

Advance Registration

SAE Member registration	\$65.00
Non-member registration	\$85.00
Participants	\$25.00
(speakers, chairmen)	
On-site registration	\$95.00

ADVANCE REGISTRATION FORM

SAE Member registration	\$65.00
Non-member registration	\$85.00
Participants	\$25.00
(speakers, chairmen)	
On-site registration	\$95.00

Make checks payable to "SAE" and return by October 1.

Name _____

Company _____

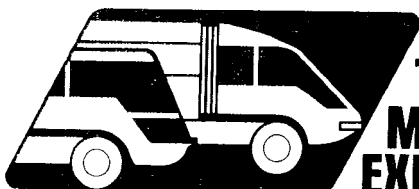
Address _____

City, State, Zip _____

Telephone Number _____

Please check here if you are an SAE Member ☐

Plan to Attend



1986 SAE TRUCK & BUS MEETING & EXPOSITION

Valley Forge Convention Center • King of Prussia, PA
November 10-12, 1986

HOTEL RESERVATION FORM

4TH ANNUAL COLLOQUIUM ON BRAKES & ENGINEERING DISPLAY SANDS HOTEL & CASINO OCTOBER 20-22, 1986

All reservations for room accommodations can be made by contacting:

Sands Hotel & Casino
Attn: Reservations Manager
P.O. Box 28
Atlantic City, NJ 08404

Please make your reservation in writing—DO NOT CALL. State in your letter that you are attending SAE's Colloquium on Brakes & Engineering Display—otherwise your request may not be filled. Confirmation will be sent directly to you.

Clip and mail to above address.

PLEASE NOTE: CHECK-IN TIME IS 3:00 PM

(Expect later check-in on Sunday)

CHECK-OUT TIME IS 12:00 NOON

All reservation requests and deposits must be received by September 30, 1986, in order to guarantee accommodations.

YOUR RESERVATION REQUEST CANNOT BE PROCESSED UNLESS THE FIRST NIGHT'S DEPOSIT IS INCLUDED. DEPOSIT WILL BE REFUNDED IF CANCELLATION IS RECEIVED 48 HOURS IN ADVANCE. WE APPRECIATE YOUR COOPERATION.

NAME _____

COMPANY _____

ADDRESS _____

CITY/STATE/ZIP _____

BUSINESS PHONE _____

METHOD OF PAYMENT:

☐ Check Enclosed ☐ Money order enclosed

☐ American Express:

Card No. _____ Exp. Date _____

Please Check

☐ Single Occup. (1 person) \$70

☐ Double Occup. (2 people) \$70

Plus 12% State Tax

Anticipated time of arrival at the hotel _____

Sharing with _____

Requests for accommodations prior to and after Conference dates will be accepted on a space available basis only.

I plan to arrive _____

I plan to depart _____

Airline _____ Flight No. _____