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FINAL PROGRAM
5th ANNUAL SAE COLLOQUIUM ON BRAKES
October 5 - 7, 1987

October 5 - ANTILOCK BRAKE SYSTEMS

Chairman-John Brown, Abex Corp.

New Focus for Laboratory Brake Testing — Oral Only
Robert Olschefski, Froude Engrg., Inc.

Actual State of Abs/Asr and Future Development Trends — Oral Only
Wolf Jonner, Robert Bosch Corp.

European Operating Experiences of the Lucas Girling Mechanical Anti-Lock System — Oral Only
Brian Edwards, Lucas Girling

Synthesis of Noise Created by Slip Friction — Oral Only
Dr. Blouet, Prof. & Dir., Tribological Lab., Institute of Paris

RAW MATERIALS/PERFORMANCE

Chairman-Dan McLaughlin, Schenectady Chemicals

Carbon/Carbon Friction Products for Brakes and Clutches — Oral Only
David W. Gibson, Hitco

Performance of Particulate Calcium Sulfate Filler — Oral Only
V. R. Nathan, US Gypsum

Test Method for Evaluation of the Flexibility of Brake Linings and Evaluation of Various Resin Systems for Brake Lining Flexibility — Oral Only
Chris Ford, Cardolite

TWARON Pulp in Friction Material and Gaskets — Oral Only
Chris Buiting, Enka AG

Fiber Emissions from Railroad Brakes — Oral Only
Arne Anderson, Tribo-Diagnostics Corp.

(more)

October 6 - INTERFACIAL PHENOMENA

Chairman - Don Melotik, Ford Motor Co.

Transfer Layer Chemistry by Surface Analytical Techniques — Oral Only
Dr. R. E. Chase, Prin. Res. Scientist and
D. J. Melotik, Res. Eng., Ford Motor Co.

Analysis of Transfer Films from Brake Linings on Metal Surfaces — Oral Only
Leon A. Duplessis, Graduate Student, and
Dr. James L. Lauer, Prof., Rensselaer Polytechnic Institute

Thickness of Transfer Films Produced by Dry Friction as Determined by Ellipsometry — Oral Only
Leon A. Duplessis, Grad. Student and
Dr. J. L. Lauer, Prof., Rensselaer Polytechnic Institute

Tribo-Chemical Conversion of Asbestos in Brake Friction Materials — Oral Only
Dr. Michael G. Jacko, Allied-Signal

Application of Mineral Fibers in Friction Materials — Oral Only
Terry McEwen, U. S. Gypsum Co.

CONCEPTS AND TECHNOLOGIES

Chairman - Phil Dougherty, Friction Div. Prod.

Sound Dampening Materials for Brake Applications — Oral Only
Dr. Edward Vydra, Pre Finish Metals

Future Directions of Non-Asbestos Friction Materials in Europe — Oral Only
Dr. Dennis Moran, Res. & Dev. Dir.,
Mintex Don, Ltd.

Thermal Degradation of Semi-Metallic Disc Pad Materials in Heavy Duty Applications — Oral Only
Norm Abbott, Certified Brakes/Allied-Signal

High Temperature Adhesives for Brake Lining Attachments — Oral Only
Rich Mayhew, American Cyanamid

(more)

Mixing and Compounding Equipment Albert Shohet and Carl Anderson, Processall, Inc.	Oral Only
Future Directions of Asbestos-Free Friction Materials in Japan Osamu Kanzaki, Tech. Mgr., Friction Matls R & D, Nisshinbo Industries	Oral Only

October 7 - ISSUES AND PHILOSOPHIES

Chairman - Marv Weintraub, Ford Motor Co.

Thermal Stability and Structure in Cashew and Modified Phenol-Formaldehyde Resins Frank Blum, Professor, Univ. of Missouri-Rolla	Oral Only
Data Acquisition Bob Knapp, Ford Motor Co.	Oral Only
Computer Simulation Len Johnson, Sr. Res. Scientist, Ford Motor Co.	Oral Only
Brake Diagnostic Expert Systems Phil Tuchinsky, Ford Motor Co.	Oral Only
Status of EPA Regulation of Asbestos Steve Shapiro, EPA	Oral Only
Brake Friction Material Issues Dr. Asball, World Health Organization	Oral Only

29 Sept. 1987