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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

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

October 7 - ISSUES AND PHILOSOPHIES

Chairman - Marv Weintraub, Ford Motor Co.

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

Tony Fletcher

29 Sept. 1987