



THE INSTITUTE OF  
ELECTRICAL AND  
ELECTRONICS  
ENGINEERS, INC.

WASHINGTON SECTION

Washington Chapter  
Land Transportation Division

China's Railroads Today

The present status of the Chinese National Railways and their modernization programs will be the subject of the January meeting of the Land Transportation Group. The presentation will be made by Dr. W. H. Harris, Jr., who is Vice President of the AAR. Dr. Harris, is well known within the railroad industry world wide, and has traveled extensively on railroad systems outside U.S.A. Recently, he traveled the Chinese National Railroad System for several weeks and will augment his presentation with some of the slides taken on that trip.

Dr. Harris will make his presentation on Tuesday, January 8, 1985, at George Washington University's Marvin Center, 800 - 21st Street, N.W., Washington, D.C. The meeting is co-sponsored by the Land Transportation Committee, Industry Applications Society of the Institute of Electrical and Electronics Engineers and the Rail Transportation Division, Washington Chapter of the American Society of Mechanical Engineers.

Social hour for the meeting begins at 11:30 a.m. with lunch at Noon, and the presentation will start about 12:30 p.m.

For reservations, call Pat Graham at 383-2063 or Ken Watkins at 383-2689 before 4:00 p.m. on Friday, January 4, 1985.

\*\*\*\*\*NOTE\*\*\*\*\*

If, after making a reservation, you find that you will not be able to attend the luncheon, please cancel your reservation with Pat Graham (383-2063). We must give the University Club a "guaranteed count", and indeed pay for "no-shows". Cancellations can be phoned in as late as 9:30 a.m. the Monday before any particular luncheon meeting.



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Electromagnetic Compatibility (EMC) in Main Line Railroads

Procedures used to ensure electromagnetic compatibility in the vicinity of main line railroads will be described. Experiences and remedies adopted to combat problems caused by high voltage, high current utility company transmission lines adjacent to railroad track signal circuits will be presented.

Mr. Harry Rappaport retired from Amtrak after serving 46 years with it and its predecessors: The Pennsylvania Railroad, Penn Central, and Conrail. He is Past Chairman-AAR Committee on Electromagnetic Compatibility (EMC) and the IEEE Land Transportation Communications Group. He is a Registered Professional Engineer in five states and is a graduate of Drexel University, Philadelphia, Pennsylvania.

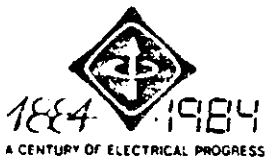
Mr. Rappaport will make his presentation on Tuesday, February 12, 1985, at George Washington University's Marvin Center, 800 - 21st Street, N.W., Washington, D.C. The meeting is co-sponsored by the Land Transportation Committee, Industry Applications Society of the Institute of Electrical and electronics Engineers, and the Rail Transportation Division, Washington Chapter of the American Society of Mechanical Engineers.

Social hour for the meeting begins at 11:30 a.m. with lunch at Noon, and the presentation will start approximately 12:30 p.m.

For reservations, call Pat Graham at 383-2063 or Ken Watkins at 383-2689 before 4:00 p.m. on Friday, February 8, 1985.

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If you find that you will not be able to attend the luncheon, please CANCEL your reservation with Pat Graham at 383-2063. We must give the University Club a "guaranteed count," and indeed pay for "no-shows." Reservations can be canceled as late as 9:30 a.m., Monday, February 11, 1985.



IEEE

INDUSTRY APPLICATIONS SOCIETY

Steerable Freight Car Trucks: Availability & Economy PLEASE REPLY TO:  
will be the subject of Mr. John H. Armstrong, Associate Editor,  
RAILWAY AGE, at the March 12, 1985 luncheon meeting of the Land  
Transportation Committee/IEEE.

Co-sponsored by the Washington Chapter, Railroad Division, ASME  
who is the host for this meeting, the presentation will be held at  
George Washington University Club, Marvin Center 3rd Floor, at 800  
21st St. NW, Washington, DC. Nearby is the Foggy Bottom, Metrorail  
station. Attitude adjustment begins at 11:30 am, lunch at Noon,  
followed by Mr. Armstrong's presentation on new trucks that seek to  
improve wheel/rail interaction on curves.

For reservations call Pat Graham at 383-2063, Ken Watkins at  
383-2689 before 4 pm Friday March 8.

NOTE: Club policy requires \$12 cash payment for lunch at the  
door. Sorry, no checks.

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1985 IEEE/ASME JOINT RAILROAD CONFERENCE WILL BE HELD APRIL 16-18, 1985  
AT ROOSEVELT HOTEL IN NEW YORK CITY. MAJOR TOPICS INCLUDE: ENERGY AND  
AERODYNAMIC CONSIDERATIONS; WHEEL FAILURE AND ADHESION ANALYSIS; RAPID  
TRANSIT ELECTRIFICATION AND TRAIN CONTROL; AND DEVELOPMENTS IN  
LOCOMOTIVES, PROPULSION AND DRAFT SYSTEMS. FOR DETAILS WRITE TO  
EITHER IEEE OR ASME, 345 EAST 47TH ST., NEW YORK, NY 10017 AND ASK  
ABOUT THE IEEE/ASME JOINT RAILROAD CONFERENCE.

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APRIL 9, 1985 Meeting of the Washington Chapter, Land Transportation  
Committee will feature a talk by Martin Lukes, signal and train control  
specialist with Washington Metropolitan Area Transit Authority on  
Metrorail's electronically computerized train control system.

May 14, 1985 LTC Meeting feature's a talk on alternate fuels  
for railroads' diesel-electric locomotives.

June 11, 1985 LTC meeting feature's a talk about Chessie System's  
operation of caboosless freight trains by William J. Sheerer,  
Assistant to Chief Engineer.

PLAN TO ATTEND THESE MEETINGS- MEET FELLOW IEEE'ERS.



LAND TRANSPORTATION COMMITTEE  
INDUSTRY APPLICATIONS SOCIETY

PLEASE REPLY TO:

ELECTRONICS PLAYS A KEY ROLE IN RAPID TRANSIT TODAY

Electronics plus computers are the major elements in command and control systems in modern rail rapid transit systems. Cities such as Washington, Atlanta, Baltimore and Miami have such systems and expansions are on the way. How these modern day wonder control systems operate as backbones of rapid transit signaling and communications systems will be explained by Martin J. Lukes, Senior Automatic Train Control Engineer for Washington Metropolitan Area Transit Authority, at the April 9, 1985 meeting of the Land Transportation Committee/IEEE.

Attitude adjustment begins at 11:30 a.m. on the third floor of the Marvin Center, George Washington University, 800 21st St. NW, Washington, DC, just a few blocks from the Foggy Bottom station of Metrorail.

Lunch follows at Noon with Mr. Lukes presentation about 12:30 p.m. He will illustrate his talk with slides.

For reservations call Bob McKnight at 835-9297 or Ken Watkins at 383-2689 or Pat Graham at 383-2063. Please call before 4 p.m. on Friday, April 5, 1985.

NOTE: Club policy requires \$12 cash payment for lunch at the door. Sorry, but no checks accepted. Cash bar too.

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MAY 14, 1985 MEETING OF THE WASHINGTON CHAPTER LAND TRANSPORTATION COMMITTEE/IEEE WILL FEATURE A TALK ON ALTERNATE FUELS FOR DIESEL-ELECTRIC LOCOMOTIVES. SPEAKER WILL BE FROM THE ASSOCIATION OF AMERICAN RAILROADS RESEARCH & TEST DEPARTMENT WHICH HAS BEEN INVOLVED IN THIS EFFORT.

JUNE 11, 1985 MEETING OF LTC WILL FEATURE A TALK ABOUT CHESSE SYSTEM'S OPERATION OF CABOOSELESS FREIGHT TRAINS. WILLIAM J. SHEERER, ASSISTANT TO CHIEF ENGINEER, WILL DESCRIBE THE OPERATION OF THE SYSTEM USING AN END OF TRAIN TELEMTRY DEVICE.



IEEE

INDUSTRY APPLICATIONS SOCIETY  
LAND TRANSPORTATION COMMITTEE

PLEASE REPLY TO:

Railroads seek alternate fuels for diesel-electric locomotives

With the price of diesel fuel for railroad locomotives ranging upwards of 70 cents per gallon, many roads are looking to alternate fuels, possibly diesel oil mixed with something else that will burn as well but cost less. The Association of American Railroads has been working with the Southwest Research Institute on this subject. Preliminary tests have shown modest success and give hope that alternate fuels at less cost than present diesel fuels are feasible.

Dr. Conan P. Furber, manager energy and special studies, AAR, will discuss the alternate fuel situation at the May 14, 1985 meeting of the Washington Chapter of the Land Transportation Committee, IEEE. Attitude adjustment will be at 11:30 am with lunch at Noon, on the third floor of the Marvin Center, 800 21st St, NW, Washington, DC. This is George Washington University near the Foggy Bottom station on MetroRail.

NOTE: Cash only, \$12 for lunch. Libations extra.

Reservations: Call Ken Watkins at 383-2689 or Pat Graham at 383-2063 by 4 pm Friday, May 10, 1985.

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Cabooseless freight train operations will be the featured subject at the June 11, 1985 meeting of the Washington Chapter, Land Transportation Committee/IEEE. Speaker will be William J. Sheerer, assistant to chief engineer, Chessie System. End of train telemetry system sends via radio, the air brake pipe pressure to the locomotive engineer at the front end of the train.

Attitude adjustment at 11:30 am and lunch at Noon, Marvin Center, 3rd Floor, George Washington University- Don't forget & bring a friend.







