



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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WASHINGTON SECTION

Washington Chapter
Land Transportation Division

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.

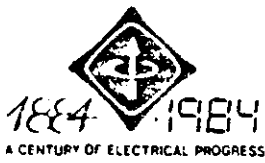
Mr. Rappaport will make his presentation on Tuesday, February 12, 1985, at George Washington University's Marvin Center, 800 - 21st Street, N.W., Washington, D.C. The meeting is co-sponsored by the Land Transportation Committee, Industry Applications Society of the Institute of Electrical and electronics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

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.

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.

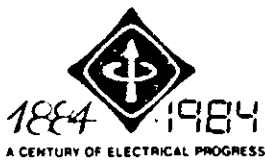
Lunch follows at Noon with Mr. Lukes presentation about 12:30 p.m. He will illustrate his talk with slides.

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.

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.

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.



IEEE

INDUSTRY APPLICATIONS SOCIETY

LAND TRANSPORTATION COMMITTEE

PLEASE REPLY TO:

Freight trains operating without cabooses (also known as cabins, cabs, or waycars) are now being seen all over the U.S. For those who may not recognize them, these caboose-less trains are regular long trains with only a red flag, red light or a combination red light and radio unit mounted on the coupler of the last car. The end-of-train radio unit sends data via UHF radio to the engineer in the locomotive telling him the pressure in the air brake piping system. From this he can tell if the brakes are applied, released and if there is enough air in the system to apply the brakes when he wants to use them.

All this and more will be described at the June 11, 1985 meeting of the Land Transportation Committee, at the Marvin Center, 3rd Floor, George Washington University, 800 21st St. NW. Social hour begins at 11:30 am with lunch at noon followed by the talk.

Our speaker will be William J. Scheerer, Assistant to Chief Engineer, Chessie System. A graduate electrical engineer from Case Western Univeristy in Cleveland, Bill experience covers years with Penn Central, Harmon Electronics and Chessie System.

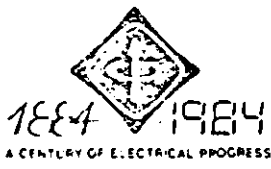
For reservations call Ken Watkins at 383-2689 or Bob McKnight at 835-9297 before 4 pm Friday June 7, 1985.

As this is the last meeting until September, bring your friends and enjoy the fellowship of colleagues in the electrical and mechanical engineering fields.

This meeting is co-sponsored by the Washington Chapter, Railroad Division, American Society of Mechanical Engineers.

One final note: Please bring cash- the charge is \$12 and personal checks or credit cards are not accepted by the GWU Club, at which the meeting is held.

For LTC, Washington Chapter, IEEE, this is Chairman McKnight asking you to make this a memorable June meeting and may you "all" have an interesting and enjoyable summer. See you in the Fall.



IEEE

INDUSTRY APPLICATIONS SOCIETY

PLEASE REPLY TO:

IEEE Land Transportation Committee

IEEE Northern Virginia & Washington Scanner - August 1985

September 10 IEEE Washington Chapter-Land Transportation Committee

Social Hour: Subject: Legislative Outlook for Transit
11:30AM

Speaker: Mr. Charles O. (Chip) Bishop, Jr.,
Director-Government Affairs, American
Public Transit Association (APTA)

Place: Marvin Center, 3rd Floor
George Washington University
800 Twenty-First Street, NW
Washington, DC

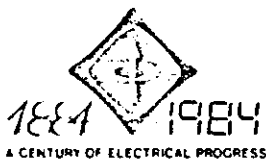
Lunch:
12:00 Noon

Contact: Jerry Hott, 785-1351 or
Deane Aboudara, 828-2880 for reservations,
before 4:00PM Friday, September 6, 1985

The status of U.S. Congressional Legislation pertaining to the transit industry and its ramifications will be addressed.

Mr. Charles (Chip) Bishop, Jr., became Director-Government Affairs for the American Public Transit Association (APTA) in May 1984. Mr. Bishop joined APTA in February 1983 as the first director of the transit industry's information program. During the administration of former U.S. President Jimmy Carter, Mr. Bishop served the U.S. Department of Transportation as Congressional Liaison Officer for passenger rail issues. He also worked in key roles in both of President Carter's presidential campaigns, ultimately as Director of Scheduling.

Prior to coming to Washington, Mr. Bishop directed the public relations program of a community hospital in his native state of Rhode Island. He was twice elected to the City Council in his home city. Previous experience includes that as a journalist, broadcaster and news editor for both radio and television.



IEEE

INDUSTRY APPLICATIONS SOCIETY

PLEASE REPLY TO:

IEEE LAND TRANSPORTATION COMMITTEE

IEEE Northern Virginia & Washington Scanner - September 1985

Tuesday
October 8th

IEEE Washington Chapter-Land Transportation Committee

Social Hour:
11:30 a.m.

Subject: Technological Developments in Rail
Passenger Equipment in Sweden

Speaker: Mr. Jan Soderstrom, Marketing Manager,
Traction Division, ASEA, Inc.

Place: Marvin Center, 3rd Floor
George Washington University
800 Twenty-First Street, N.W.
Washington, D.C.

Lunch:
12:00 Noon

Contact: Jerry Hott, 785-1351 or
Deane Aboudara, 882-2880 for reservations,
before 4:00 p.m. Friday, October 4, 1985

The combined ASME and IEEE Transportation organizations will have as the October program, a representative of a major Swedish Corporation to discuss technological developments in the field of mechanical design as related to trucks, suspension, tilting mechanisms, ride quality and car body design.

Mr. Jan Soderstrom has a Master of Science Degree in Mechanical Engineering from the Royal Institute of Technology, Stockholm and also a Degree in Business Administration from Swedish University.



THE INSTITUTE OF
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VEHICULAR TECHNOLOGY SOCIETY
LAND TRANSPORTATION COMMITTEE

PLEASE REPLY TO:

November 12, 1985

Land Transportation Committee,
Washington Chapter

Social Hour:
11:30 AM

Subject: AMTRAK - YESTERDAY AND TODAY

Speaker: Mr. Edgar E. Courtemanch,
Director of Productivity and
Business Planning - AMTRAK

Lunch:
12:00 Noon

Place: Marvin Center, 3rd Floor
George Washington University
800 Twenty-First Street, N.W.

Contact: Jerry Hott (785-1351) or
Ted Gordon (828-2886) for
reservations before 4:00 p.m.
on Friday, November 4, 1985

The planned subject, "AMTRAK - Yesterday and Today" will be a review of Amtrak's accomplishments over the last several years as well as its current legislative status and prospects.

Mr. Edgar (Ed) Courtemanch is Director of Productivity and Business Planning for Amtrak. In this capacity, he is responsible for coordinating interdepartmental efforts that contribute to improvements in Amtrak's financial and quality of service performance. He is also Management Vice President of Amtrak's Joint Labor/Management Productivity Council. Prior to joining Amtrak, Mr. Courtemanch was Manager - Corporate Planning for the Chesapeake and Ohio/Baltimore and Ohio Railroads. He also served with the U.S. Army Transportation Corps in Vietnam.