THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

VEHICULAR TECHNOLOGY SOCIETY

Land Transportation Committee

PLEASE REPLY TO:

Land Transportation Committee
Washington Chapter

January 13, 1987

Social Hour:
11:30 AM

Lunch:
12:00 Noon

Subject: Florida High Speed Rail Project

Speaker: Charles Smith
Exec. Director, Florida High Speed Rail Commission

Place: Marvin Center, 3rd Floor
George Washington University
800 - 21st Street, N.W.
Washington, D.C.

Contact: Jerry Hott (785-1351) or
Helmut Kolig (383-3034) for
reservations before 4:00 PM
Friday, January 9, 1987

Due to last minute changes on our guest speaker for the January meeting, this notice is being released later than normally scheduled. We apologize for any inconvenience this late anouncement may cause in your schedule.

We are fortunate however in having Mr. Charles Smith, Executive Director of the Florida High Speed Rail Commission. Mr. Smith has accepted our invitation to share with us the latest developments on this extremely challenging and unique rail project.

The project is the first of this magnitude which contemplates planning, development, implementation and operations entirely in the hands of private enterprise. A unique franchise concept will allow for real estate development to be an integral part of the total system.

Mr. Smith is a graduate of the University of Maryland. He also holds a degree in International and Public Affairs from the University of Pittsburgh. Prior to assuming his current position with the Florida High Speed Rail Commission, Mr. Smith served as the State Railroad Administrator in Maryland.

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PLEASE REPLY TO:

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February 10, 1987

Social Hour:
11:30 AM

Lunch:
12:00 Noon

Subject: SPACERAIL - An Old Idea With A New Look

Speaker: John A. Auer, Jr.
General Railway Signal Company

Place: Marvin Center, 3rd Floor
George Washington University
800 - 21st Street, N. W.
Washington, D. C.

Contact: Jerry Hott (785-1351), or
Helmut Kolig (383-3034) for
reservations before 4:00 PM
Friday, February 6, 1987

Spacerail is a new railway signaling and traffic control system, based on the direct linking of all trains with the control office through data radio. The track circuits, pole lines, distributed logic and wayside signals of conventional railway systems are replaced by inert wayside beacons, two-way radio, centralized logic and cab signals. The basic architecture and development status of Spacerail will be described.

Jack Auer, Manager of Advanced Engineering at the General Railway Signal Company, has been involved with railway signaling technology for 37 years. The holder of 91 U. S. patents, he has authored numerous technical papers in the transportation field. He is a member of the IEEE, APTA, Sigma Xi, the Transportation Research Board and the Professional Engineering Society.

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March 10, 1987

Social Hour:
11:30 AM

Lunch:
12:00 Noon

Subject: Developments in AC Propulsion and GTO Thyristors

Speaker: Ake Wennberg
President, ASEA Traction US

Place: Marvin Center, 3rd Floor
George Washington University
800 - 21st Street, N.W.
Washington, D.C.

Contact: Jerry Hott (785-1351), or
Helmut Kolig (383-3034) for
reservations before 4:00 PM
Friday, March 6, 1987

Mr. Wennberg's presentation will report on the latest efforts in ASEA's development of AC propulsion systems and the application of GTO-Thyristor technology to recent and planned projects.

Starting in the System Development Department of ASEA in 1977 as an electrical engineer, Mr. Wennberg has been intimately involved in the design and engineering of subject systems and its applications to various international projects. He is currently President of ASEA Traction US and holds a Master of Science degree in Electrical Engineering from Chalmers University of Technology in Gothenburg, Sweden.

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PLEASE REPLY TO:
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April 14, 1987

Social Hour:
11:30 AM

Lunch:
12:00 Noon

Subject: The Advanced Train Control System - A New Era in Railroad Control Systems

Speaker: Gary Pruitt
ARINC Research Corporation

Place: Marvin Center, 3rd Floor
George Washington University
800 - 21st Street, N.W.
Washington, D.C.

Contact: Jerry Hott (785-1351), or
Helmut Kolig (383-3034) for
reservations before 4:00 PM
Friday, April 10, 1987

The Advanced Train Control Systems project represents a major step forward by the railroads of North America to take advantage of data communications and computer technology. ATCS consists of central dispatch systems, a data link to trains, work gangs and wayside equipment; locomotive equipment for location tracking, communications, control and data collection; wayside sensor and switch control systems; and other system elements. ATCS will employ state-of-the-art mobile data communications, distributed computer systems and fully integrated, modular communications, command, control and information systems architecture, including automatic location tracking and speed/authority enforcement.

Gary Pruitt is Manager of the Surface Transportation and Distribution Group of ARINC Research Corporation, located in Annapolis, Maryland. He is also project manager of the system engineering team for the Advanced Train Control Systems (ATCS) project. Mr. Pruitt holds a BSEE degree from Drexel University and an MSEE degree from John Hopkins University.

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Land Transportation Committee

PLEASE REPLY TO:
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May 12, 1987

Social Hour:
11:30 AM
Lunch:
12:00

Subject: Advanced Transportation Systems

Speaker: J. Edward Anderson
Professor of Aerospace and
Mechanical Engineering
Boston University

Place: Marvin Center, 3rd Floor
Geo. Washington University
800 21st Street, N.W.
Washington D.C.

Contact: Jerry Hott (785-1351), or
Helmut Kolig (383-3034) for
reservations before 4:00 PM
Friday, May 8, 1987

Professor Anderson from Boston University will present a new form of public transit system that has been derived on economic grounds to minimize cost per passenger mile. The system uses linear induction motors, solid-state drives, microprocessor controls and electronic communications, and can be designed, planned, manufactured, and managed with the aid of computer programs.

From the Mechanical Engineering Department of the University of Minnesota, Professor Anderson came to Boston University in fall of 1986. He holds a BSME from Iowa State University, a MSME from the University of Minnesota and a Ph.D. in Aeronautics and Astronautics from M.I.T.

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Land Transportation Committee

PLEASE REPLY TO:
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June 9, 1987

Social Hour:
11:30 AM

Lunch:
12:00 Noon

Subject: The Iron Highway -- An Integrated Transport System

Speaker: Thomas H. Engle
New York Air Brake Company

Place: Marvin Center, 3rd Floor
George Washington University
800 - 21st Street, NW
Washington, DC

Contact: Jerry Hott (785-1351), or Helmut Kolig (383-3034) for reservations before 4:00 PM, Friday, June 5, 1987

Under the title "The Iron Highway - An Integrated Transport System," Mr. Engle will present the advantages and drawbacks of the existing Railway Freight Transport System and show how, in general, an integrated system design approach can be used to augment the advantages and overcome the drawbacks. Four systems:

- Terminal Loading and Unloading
- Propulsion and Control
- Cars and Suspension
- Maintenance and Repair

are designed independently in order to maximize performance and minimize cost. Finally, examples of the application of the integrated design methodology will be given by explaining the design of New York Air Brake Company's Iron Highway Trailer Train System.

Mr. Engle holds a BSME degree from Wayne State University and has worked for the RI, NYC and C&O Railroads. He is presently General Manager, New Product Development at NYAB Company.

This will be the final meeting of the Land Transportation Committee for the 1986/87 season. We wish you an enjoyable summer and hop to see you again at our first meeting in September 1987.

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VEHICULAR TECHNOLOGY SOCIETY
Land Transportation Committee

PLEASE REPLY TO:
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Washington Chapter

September 15, 1987

Social Hour:
11:30 AM
Lunch:
12:00

Subject: Intermodal Communications Network

Speaker: Thad H. Harden
Manager, Telecommunications
Technology
ARINC Research Corporation

Place: Marvin Center, 3rd Floor
George Washington University
800 - 21st Street, N.W.
Washington, D.C.

Contact: Jerry Hott or Leslie Randall
(785-1351), or Helmut Kolig
(383-3034) for reservations

The 1987/88 season of meetings of the Land Transportation Committee will be opened with a presentation by Mr. Thad H. Harden, Manager Telecommunications Technology at ARINC Research Corporation, on the topic of a proposed intermodal communications network. A system for intermodal, electronic data interchange, acquired, integrated, and operated by the transportation industry could interconnect existing, established computer and communications systems and provide for an industry-wide data exchange.

Please note that this September meeting will take place on the third Tuesday of the month (September 15) due to the preceeding Labor Day weekend.

In addition, we have to announce the following: As the cost for meals and drinks at the George Washington Club has increased during our last meeting session, we are, regrettably, forced to set the luncheon cost at $15 per person for this year. This will, however, include one beverage (beer, wine, or soda) at no extra charge. We will still request you pay in cash (no personal checks, please.)

Please make reservations before 4:00 p.m., Tuesday, September 11.

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VEHICULAR TECHNOLOGY SOCIETY
Land Transportation Committee

PLEASE REPLY TO:
Land Transportation Committee
Washington Chapter

October 13, 1987

Social Hour:
11:30 AM
Lunch:
12:00

Subject: Rail Passenger Projects

Speaker: Arrigo P. Mongini
Ferderal Railroad Administration

Place: Marvin Center, 3rd Floor
George Washington University
800 - 21st Street, N.W.
Washington, D.C.

Contact: Jerry Hott 785-1351, or
Helmut Kolig 383-3034
for reservations

This months speaker is Mr. Arrigo P. Mongini, Deputy Associate Administrator for Passenger and Freight Services. Mr. Mongini will be discussing the status of past, present and future Northeast Corridor Improvement projects as well as other FRA activities.

Mr. Mongini holds both a Bachelors and a Masters Degree from MIT in Civil Engineering. He has worked as head of the Central Transportation Planning staff in Boston, as Assistant Budget Director at the Massachusetts Bay Transportation Authority, and as Division Chief in the office of the Secretary of the USDOT.

Please make reservations before 4:00 p.m., Friday, Oct. 9.

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VEHICULAR TECHNOLOGY SOCIETY
Land Transportation Committee

PLEASE REPLY TO:

Land Transportation Committee
Washington Chapter

November]0,]987

Social Hour:
]]:30 AM
Lunch:
]2:00

Subject: The Effects of Imported Railroad Products on the North American Railroad Industry from an Importer's Perspective

Speaker: Alan Briggs
Sales Mgr.- Track Products
British Steel Corp.,Inc.

Place: Marvin Center, 3rd Floor
George Washington University
800 - 2]st Street, N.W.
Washington, D.C.

Contact: Jerry Hott 785-]35], or
Helmut Kolig 383-3034
for reservations before
Friday Nov. 6,]987, 4 PM

This months presentation will outline the developments in rail and track technology since the early]970's and the possible directions of future developments.

Mr. Alan Briggs is presently Sales Manager-Track Products for British Steel Corp., Inc. He moved to the United States in]976 when he joined the Strip Mills Division of the state owned British Steel Corporation. He took over the sales of rails in]979 and has recently been involved in the introduction and development of new types of trackwork, switch machines, and grade crossing barriers.

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PLEASE REPLY TO:

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December 8, 1987

Social Hour:
11:30 AM

Lunch:
12:00

Subject: Rail Based "Peace Keeper" Missile System

Speaker: Lt.Col. Thomas Maxwell
U.S. Air Force

Place: Marvin Center, 3rd Floor
George Washington University
800 - 21st Street, N.W.
Washington, D.C.

Contact: Jerry Hott 785-1351, or
Helmut Kolig 383-3034
for reservations before
Friday, Dec. 4, 1987, 4 PM

Lt.Col. Maxwell is the project monitor on the Secretary of the Air Force's staff for the Peacekeeper missile. As part of his duties, he works closely with the U.S. rail industry, major segments of the aerospace industry, othe branches of the Department of Defense, State Department, Department of Transportation, and various congressional staffs. Colonel Maxwell has 17 years of experience in acquiring, supporting and operating intercontinental ballistic missile systems. He has been assigned to his present position in the Pentagon for two years.