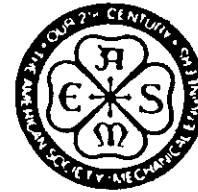


THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS



AND



THE INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS

Cordially invites you to our monthly luncheon meeting

- SPEAKER:** **JEROME R. PIER** - J.R. Pier & Associates
- TOPIC:** **A COMPARISON OF LOCOMOTIVE TECHNOLOGIES IN TERMS OF
AIR POLLUTION, ENERGY USE AND MAINTENANCE COST**
- PLACE:** **UNIVERSITY CLUB, George Washington University
Marvin Center, 3rd. floor
800 21st. Street, NW, Washington, DC**
- DATE/TIME:** **TUESDAY, JANUARY 14, 1992 - 11:30 a.m.**
- PRICE:** **\$ 15.00 CASH AT THE DOOR**
- RESERVATIONS:** **LOU SANDERS 301/266-4685
RAUL V. BRAVO 703/425-6059**

ABOUT THE SPEAKER AND THE SUBJECT:

Jerome R. Pier, who has been involved in the railroad industry since 1950, formed his own management consulting firm, J.R. Pier & Associates in 1986. Jerry has provided support to the prime contractor and major subsystem suppliers for the RTX Turbine Locomotive proposed for service in the Northeast Corridor as well as for many other corridors in the U.S.

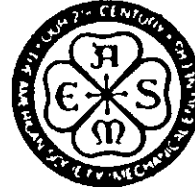
Jerry has a degree in Mechanical Engineering from Penn State University. Mr. Pier is a licensed Professional Engineer.

Mr. Pier's presentation compares the performance of turbine hydraulic, diesel electric and electric locomotives with respect to their air pollution, energy use and maintenance cost. The presentation will start with a short history of the successful RTL Turboliner motive power in New York State's Empire Corridor followed by a description of the basic technology. A detailed comparison of the three technologies within the scope of the presentation will then be developed. The presentation will conclude with a quick look at the future possibilities for higher powered turbine locomotives with 200 mph capability.

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SPEAKER: **TONY DeANGELO** - Vice President of Real Estate and Operations Development, National Railroad Passenger Corporation

TOPIC: **THE DEVELOPMENT OF REAL ESTATE PROPERTY AND ITS CONTRIBUTION TO MASS TRANSPORTATION SYSTEMS**

PLACE: **UNIVERSITY CLUB, George Washington University**
Marvin Center, 3rd. floor
800 21st. Street, NW, Washington, DC

DATE/TIME: **TUESDAY, FEBRUARY 11, 1992 - 11:30 a.m.**

PRICE: **\$ 15.00 CASH AT THE DOOR**

RESERVATIONS: **LOU SANDERS** **301/266-4685**
 RAUL V. BRAVO **703/425-6059**

ABOUT THE SPEAKER AND THE SUBJECT:

Tony DeAngelo is Vice President of Real Estate Development and Operation Development for the National Railroad Passenger Corporation (Amtrak). In this Capacity, Mr. DeAngelo is charged with developing maximum non-passenger related revenues from all of Amtrak's interests, as well as providing for the corporation's Real Estate needs.

Tony has a degree in Economics from the University of Pennsylvania.

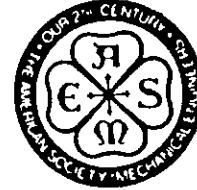
Mr. DeAngelo has held several positions in the area of economic development. These include Vice President and Board Member American Medical Buildings, Inc., Director, Office of Program Operations, Economic Development Administration, U.S. Department of Commerce, and Deputy Assistant Secretary, Economic Development Administration, Department of Commerce.

Mr. DeAngelo will discuss the development of real estate property and its contribution to mass transit systems.

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Cordially invites you to our monthly luncheon meeting

- SPEAKER:** ED GREGERMAN - Director - Rail Technology, APTA
- TOPIC:** AMERICAN PUBLIC TRANSIT ASSOCIATION & COMMUTER RAIL
- PLACE:** UNIVERSITY CLUB, George Washington University
Marvin Center, 3rd. floor
800 21st. Street, NW, Washington, DC
- DATE/TIME:** TUESDAY, MARCH 10, 1992 - 11:30 a.m.
- PRICE:** \$ 15.00 CASH AT THE DOOR
- RESERVATIONS:** LOU SANDERS 301/266-4685
RAUL V. BRAVO 703/425-6059

ABOUT THE SPEAKER AND THE SUBJECT:

Ed Gregerman is the Director - Rail Technology for the American Public Transit Association (APTA) in Washington, DC, a position he has held since 1987.

Ed joined the New Haven Railroad in 1950 as a Test Engineer right out of Northeastern University in Boston. After working his way up to Master Mechanic in Boston for both commuter and freight, he went to BART where he was Director of Maintenance of Rolling Stock and Plant.

Mr. Gregerman has, along the way, been Assistant Vice President, Engineering and Maintenance, for New Jersey Transit, Chief, Facilities Design, for the Northeast Corridor program, and consulted with Kaiser, DeLeuw Cather, and independently in the Pacific Rim.

Mr. Gregerman will discuss APTA and Commuter Rail: "How the Relationship Started and Where It Is Going."

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Cordially invites you to our monthly luncheon meeting

SPEAKER: **KENNETH M. WATKINS** - Director, Equipment Design, Amtrak

TOPIC: **AMTRAK'S NEW 4000 HP LOCOMOTIVES**

PLACE: **UNIVERSITY CLUB, George Washington University**
Marvin Center, 3rd. floor
800 21st. Street, NW, Washington, DC

DATE/TIME: **TUESDAY, APRIL 14, 1992 - 11:30 a.m.**

PRICE: **\$ 15.00 CASH AT THE DOOR**

RESERVATIONS: **LOU SANDERS** **301/266-4685**
 RAUL V. BRAVO **703/425-6059**

ABOUT THE SPEAKER AND THE SUBJECT:

Mr. Watkins joined Amtrak in 1976 and is presently Director, Equipment Design in Amtrak's Office of Engineering in Philadelphia. Ken is responsible for technical support of Amtrak's locomotive and passenger car fleet, enhancement of equipment performance, warranty and enforcement and for providing technical direction to planning and acquisition activities. His previous assignments have been as Director Motive Power Engineering and Manager, Engineering at the wilmington Maintenance Facility.

Ken graduated from Coventry Technical College in 1955 with a Higher National Certificate, the equivalent of a Bachelor of Science in Electrical Engineering. Since graduation Mr watkins has held a variety of positions before joining General Electric in Erie, Pennsylvania in 1970. Ken was the Electrical Systems Engineer in the Locomotive Department immediately before joining Amtrak.

Mr. Watkins will Amtrak's new 4000 Horse Power Locomotives, the first new General Electric passenger locomotives since the mid 1970's.

