

**JAN 18<sup>TH</sup>, 2005 Meeting Announcement**

**THE INSTITUTE OF ELECTRICAL/ELECTRONICS ENGINEERS  
AND  
THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS**

**Invite you to our monthly luncheon meeting**

- SPEAKER:** Lou Thompson, Principal  
Thompson, Galenson and Associates, LLC
- TOPIC:** Privatizing British Railways: Lessons Learned !
- PLACE;** American Public Transportation Association  
Conference Room - 11<sup>th</sup> floor  
1666 K Street NW, Washington, DC
- DATE/TIME:** **TUESDAY, January 18, 11:30 AM**
- LUNCH:** **\$15.00 CASH AT THE DOOR**
- RESERVATIONS:** [Gene.Cox@fra.dot.gov](mailto:Gene.Cox@fra.dot.gov) or 202-493-6319  
[Brad.Luse@DullesMetro.com](mailto:Brad.Luse@DullesMetro.com) or 301-332-8163  
( by 4pm Friday, January 14)

**ABOUT THE SPEAKER:**

Lou Thompson is a United States Citizen. He earned a B.S. from M.I.T. in 1963, and an M.B.A. from Harvard University in 1965.

- \* *3 years (65-68) with the Badger Co. Inc., Cambridge, MA*  
Project Engineer in design and construction of industrial plants.
- \* *5 years (68-73) as Policy and Budget Analyst in the Office of the Secretary, U.S. Department of Transportation (US DOT)*  
Member of a team that created Amtrak.  
Reviewed and refocused the Northeast Corridor Transportation Project.  
Helped write the Regional Railroad Revitalization ("3R") Act of 1973.

2.

\* *5 years (73-78) in economic consulting with R. J. Barber Associates, WDC .*

Firm's practice concentrated in economic and financial issues associated with transport regulation, particularly rail, and anti-trust issues.

\* *8 years (78-86) at the Federal Railroad Administration, US DOT :*

Director Northeast Corridor Improvement Project, restructured and an RECIP., a 2.5 billion, multi-year project upgrading rail service between Boston, New York City and Washington.

Associate Administrator for Intercity Services, managed the review of Amtrak budget, an supervised high speed rail studies, as well as continuing to manage RECIP.

Associate Administrator, Passenger and Freight Services, supervise RECIP., Amtrak budget, and all FRA assistance programs to freight railways.

Acting Associate Administrator for Policy, supervised policy development, and Conrail sale.

Acting Deputy Administrator, (4months)

Received: Administrator Awards for Outstanding Performance (2) and for Excellence in Promoting Opportunities for Minority Businesses, Secretary's Award for Outstanding Performance, and the Presidential Award for Outstanding Performance.

\* *October 1986 to June 2003, The World Bank.*

As Railways Advisor, reviewed the Bank's entire railway lending activities. Worked in all Bank regions, with particular attention to Argentina, Brazil, Mexico, China, and India and CEE and CIS countries. Led the concessioning of railways in Argentina, Chile (with IFC team), Mexico, Bolivia, and Brazil, an advised in the concessioning in Malawi, Kenya Tanzania, Zambia, Egypt, and Pakistan, among others. Advised in rail private sector involvement in Estonia, Poland, Romania, Panama and Mexico. Latest focus has been railway restructuring in China, Russia and

3.

India.

Received the World Bank President's Award for Excellence for leading the concessioning of railways. Have spoken and published extensively on U.S. and international rail freight and passenger issues.

June 2003 to present. Thompson, Galenson and Associates. Consulting firm working with the World Bank Group as well as other public and commercial clients on railway and other transport issues. Nominated to be Member, Amtrak Board of Directors.

### **ABOUT THE TOPIC:**

Lou has authored a most comprehensive paper for the World Bank titled: Privatizing British Railways, published in TRANSPORT PAPERS by The World Bank Group in the September 2004 issue. It provides thought provoking analysis and lessons for the World Bank and its owners ..... a mix of issues of significant focus. See website: [http://www.worldbank.org/transport/publicat/pubs\\_recent.htm](http://www.worldbank.org/transport/publicat/pubs_recent.htm) or, I can provide a copy. The paper will be the focus of Lou's presentation.

---

### ***Special Notes:***

- \* Monthly announcements: For quick delivery.... e-mail is the answer! Need your address !
- \* Monthly meeting relocation consideration.... a work in progress.
- \* Note the revised meeting date of January 18th
- \* Guests are welcomed ! Bring an associate !

###

February 8<sup>th</sup>, 2005 Meeting Announcement

**THE INSTITUTE OF ELECTRICAL/ELECTRONICS ENGINEERS  
AND**

**THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS**

Invite you to our monthly luncheon meeting

- SPEAKER:** Steven R. Ditmeyer,  
Department of Transportation Faculty Chair  
Industrial College of the Armed Forces  
National Defense University  
Eisenhower Hall  
Fort Lesley J. McNair  
Washington, DC 20319
- TOPIC:** Intelligent Railroad Systems-Safety, Security & Efficiency
- PLACE:** NASSIF Building  
400 7<sup>th</sup> Street SW (Room 3328)  
Washington, DC 20590  
(Enter at SW inside corner)
- DATE/TIME:** TUESDAY, February 8<sup>th</sup>, 1130 am  
(After Noon call 703-915-2829)
- LUNCH:** \$15.00 CASH AT THE DOOR
- RESERVATIONS:** [Gene.Cox@fra.dot.gov](mailto:Gene.Cox@fra.dot.gov) or 202-493-6319  
[Brad.Luse@DullesMetro.com](mailto:Brad.Luse@DullesMetro.com) or 703-288-2669

**ABOUT THE TOPIC:**

Through a carefully prepared visual presentation, Mr. Steven Ditmeyer will provide a view of the continuing embrace and development of "Intelligent Railroad Systems for Safety, Security, and Efficiency.... elements enabling the competitive edge ... influenced by the forces of economics as well as advanced technology... on line today and in the program plan for tomorrow.

**ABOUT THE SPEAKER:**

Steven Ditmeyer joined the Industrial College of the Armed Forces as the Department of Transportation Faculty Chair in 2003. He received a BS degree in Industrial Management

2.

from MIT and an MA degree in Economics and The Certificate in Transportation from Yale University. He served his Army active duty tour with the Office of the Special Assistant for Strategic Mobility in the Organization of the Joint Chiefs of Staff, and in the reserves he served with the Military Traffic Management and Terminal Service and HQ, 3<sup>rd</sup> Transportation Brigade (Railway). His civilian career has been in a number of transportation-related positions in both the public and private sectors. He was a transportation economist at the World Bank; Acting General Manager of the Alaska Railroad; Chief Engineer - Research, Communications, and Control Systems at the Burlington Northern Railroad; and Vice President - Marketing and Business Department at the Locomotive Division of the Morrison Knudsen Corporation. He served as Associate Administrator for Policy and Associate Administrator for Research and Development at the Federal Railroad Administration. At ICAF he is a member of the Economics Department faculty, where he teaches courses in macro economics, micro economics, and transportation economics, and he is leader of the transportation industry study.

---

*Special notes:*

- \* *Additional e-mail addresses ?*
- \* *Surprise guest for our March 8<sup>th</sup> meeting, arranged by Charles J. Engelhardt, P.E. !*
- \* *Looking forward to seeing you all February 8<sup>th</sup> !*

###

**THE INSTITUTE OF ELECTRICAL/ELECTRONICS ENGINEERS  
AND  
THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS**

Invite you to our monthly luncheon meeting

(DRAFT)

**SPEAKER:** Robert C. VanderClute  
Senior Vice President Safety and Operations  
Association of American Railroads  
50 F Street, NW  
Washington, DC 20001

**TOPIC:** Safety and Security - A Continuing Focus

**PLACE:** American Public Transportation Association  
Conference Room- 11<sup>th</sup> Floor  
1666 K Street NW, Washington, DC 20006

**DATE/TIME:** Tuesday, March 8<sup>th</sup>, 1130 AM

**LUNCH:** 15.00 CASH AT THE DOOR

**RESERVATIONS:** [Gene.Cox@fra.dot.gov](mailto:Gene.Cox@fra.dot.gov) or 202-493-6319  
[Brad.Luse@DullesMetro.com](mailto:Brad.Luse@DullesMetro.com) or 703-288-7069  
(By 4pm Friday, March 4)

**ABOUT THE SPEAKER:**

Bob VanderClute joined the Association of American Railroads as their Senior Vice President - Safety and Operations in July 2003. His department's responsibilities include the oversight of the industry's homeland security plan, equipment interchange standards, car service rules, quality assurance programs, safety initiatives and issues in environmental, hazardous materials, communications and signals as well as exercises authority for tank car safety standards and design. In addition, he is the industry's liaison with FRA, NTSB, EPA, FCC and other regulatory bodies.

In 1977 he joined Parsons Brinckerhoff as the Vice President and Program Area Manager - Rail after a 30 year career with the US rail industry. During his

2.

5 ½ years with PB he was Program Manager, in London UK for the West Coast Route Modernization Project which encompassed the rebuilding and upgrading of the rail line between London and Glasgow and Edinburgh Scotland. In addition he

spent time in the China (PRC) as well as being project manager for the implementation of the Taiwan High Speed Railroad, headquartered in Taipei. His responsibilities with Parsons Brinckerhoff included the development of a railroad industry strategic plan both for the domestic and international markets, providing continual internal technical and rail support, and provide a professional presence in the rail industry network.

With Amtrak, his most recent assignment was Vice President - Operations and Chief Operating Officer. Reporting directly to Amtrak's President and Chairman, Bob was responsible for all operations including the commuter service, transportation, procurement and material management, safety, environmental, engineering and mechanical service centers and other key corporate responsibilities.

Prior responsibilities with Amtrak included Vice President of Customer Service, Vice President of Transportation, General Manager of National Operations and General Manager North East Corridor. During his career the corporation implemented a high-speed rail program; embarked on a 6 billion dollar infrastructure improvement program, replaced virtually its entire motive power and car fleet, and became the largest contract carrier of commuter services in North America.

A graduate of the University of Tennessee where he majored in transportation, Bob then joined the New York Central Railroad where he managed several major operations. He completed various graduate school programs both at the Darden Graduate School of Business at the University of Virginia, as well as the Harvard Business School. He is in several professional organizations, serving on the board of both professional and public organizations. Bob resides in the Annapolis, Maryland area with his wife Carol.

## **ABOUT THE TOPIC:**

Bob will provide an overview with regard to security issues among the nation's railroads ... a program plan. He will display visuals which will focus on safety practices in place today, as well as those in the pipeline for the near and long terms. He will highlight railroad's continuing focus on providing improved safety, security, efficiency, reliability... how society's the overall benefactor...a private sector effort.

3.

Although Bob has scheduled a very busy presentation of information, he has agreed to respond to questions you may pose.

+++++

*Special Notes:*

- \* *Monthly announcement notification in lieu of mailing - need your e-mail address !*
- \* *Invite your associates - guests are welcomed !*
- \* *Can you recommend informative guest speakers ? Lets discuss it !*
- \* *Interested in the Titles of the four books recommended by Steven Ditmeyer, our February guest speaker ? I will be pleased to e-mail you the Titles & Authors !*



**THE INSTITUTE OF ELECTRICAL/ELECTRONICS ENGINEERS  
AND  
THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS**

Invite you to our monthly luncheon meeting

**SPEAKERS:**     **JOHN J. SHEA Jr., P.E.**  
                  **Director of Equipment Maintenance**  
                  **Port Authority Transit Corporation (PATCO)**  
                  **and**  
                  **DAVID C. WARNER, P.E.**  
                  **Technical Supervisor-Equipment**  
                  **Port Authority Transit Corporation (PATCO)**

**TOPIC:**           **ENGINEERING THE MECHANICALS**

**PLACE:**           **American Public Transportation Association**  
                  **Conference Room - 11<sup>th</sup> Floor**  
                  **1666 K Street NW, Washington, DC 20006**

**DATE/TIME:**     **Tuesday, April 12<sup>th</sup>, 11:30 AM**

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

**RESERVATIONS:**   **Gene.Cox@fra.dot.gov**           **or Phone 202-493-6319**  
                          **Brad.Luse@DullesMetro.com**       **or           703-288-7069**  
                          **(Please reserve prior to Friday)**

**ABOUT THE TOPIC:**

The speakers assisted by power point display will overview the PATCO's colorful background, its passenger market and operation, its equipment overhaul & upgrading modernization and procurement plans ... a continuing process, as well as its recently signed contract to install an Automatic Fare Collection System & Equipment. Simply put, the presentation will quickly review the past, describe the present along with its technical/maintenance points of focus and planning, and then look to the future.

John and David have agreed to take questions from the floor.

2.

**ABOUT THE SPEAKERS:**

**John J. Shea, Director of Equipment Maintenance, Port Authority Transit Corporation (PATCO), located in Lindenwold, NJ., is currently responsible for maintenance of the 121 car fleet, associated shop equipment and the to be installed Automatic Fare Collection System & Equipment. He has been at PATCO for a nine year period. His previous mechanical responsibilities were at the Erie Lackawanna Railway and Amtrak; Electrical Engineer at the Philadelphia Naval Shipyard, and Supervisory Technical Writer in the automotive service field.**

**John is a graduate of the Polytechnic University of Brooklyn (now the Polytechnic University) with a BSEE degree. He resides in West Chester, Pa. with his wife and two daughters.**

**David C. Warner is the principle overall support for John J Shea Jr. and Technical Supervisor-Equipment for the system. In addition, he actively directs the technical writing of the specifications to support a planned overhaul of the fleet. Before joining PATCO two years ago, he spent six and one half years at Amtrak where he was responsible for conducting ride tests of new and existing equipment to ensure compliance. While at Amtrak he directed the high speed qualification tests of the Acela Express train set. David joined Amtrak in October, 1996, following a 20 year career in the Navy where he helped win the Cold War as a nuclear-trained submarine officer.**

**He earned his Mechanical Engineering degree from the Naval Postgraduate School in Monterey, Ca. and is a registered Professional Engineer in the state of California. David resides in Wilmington, DE, with his wife Ann of 25 years and two teen age sons Matthew 18 and Daniel 15.**

---

---

*Special Notes:*

- \* **The scheduled speaker for the May 10<sup>th</sup> Meeting will be William L. Withuhn, Curator of Transportation History, Smithsonian Institution.**

**3.**

- \* Below is an article about the passing of our Robert L. Banks, dated March 15<sup>th</sup> - a frequent IEEE/ASME Meeting attendee. He had scheduled himself to attend the March 8<sup>th</sup> Meeting. He will be missed !**
- \* Monthly announcement notification in lieu of mailing - need your e-mail address.**
- \* Invite your associates - guests are welcomed !**
- \* Do you have guest speakers to recommend ? Lets discuss it !**

**Washington Post Thursday, March 24, 2005**

**Obituary**

**Rail Transportation Consultant Robert Louis Banks Dies**

**Robert Louis Banks, who was chief executive of R.L. Banks & Associates Inc. And was considered the dean of rail transportation consultants, died of pneumonia March 15, at Sibley Memorial Hospital. Mr. Banks, a Washington resident, was 87.**

**He has been a student of north American railroads since the 1930s, when he enrolled in a graduate transportation program under Yale University transportation economist Kent T. Healy.**

**In 1956 Mr. Banks established R. L. Banks in Washington, a firm of transportation analysts, planners, economists and engineers, which he led until his death. He testified more than 150 times as an expert before railroad, highway, truck, bus, and aviation economics and engineering before committees of Congress, federal courts and regulatory bodies.**

**He was a transportation policy advisor and technical counselor to major, regional and short-line freight railroads, commuter agencies, financial institutions, transit operators, airlines, industry and government. Among his clients were the Department of Commerce, Interior, Justice, and Transportation, Bank of America and the Port Authority of New York and New Jersey.**

**His firm carries out engagements for several hundred private corporation, public agencies and 32 states, Northrop Grumman Corp., U.S. Steel Corp. And several Canadian provincial governments. It also worked for the Canadian National Capital Transportation Agency, the predecessor to Metro.**

**Mr. Banks, who had an abiding passion for Canada, participated in the development of railroad cost ascertainment on behalf of the Canadian prairie provinces and was a recipient of the 1997 Distinguished Service Award by the province of Saskatchewan.**

4.

**A lifelong advocate of public transportation, he used it daily. He played a leading role in the promotion and implementation of the U.S. rail renaissance of the 1980s and 90s, serving as technical advisor to the Virginia Railway Express and commuter rail advisor to Southern California Regional Rail Authority.**

**Mr. Banks was born in the Bronx, N.Y., and graduated from Columbia University, where Phi Beta Kappa. In 1939, he was chosen as a fellow in transportation in graduate school at Yale. In 1940, he joined the passenger department of the New York Central Railroad.**

**In early 1942 he enlisted in the Army as a private and later was commissioned in the Coast Artillery Corps.**

**He was deployed at New York Harbor in anticipation of an attack by Germany and later was dispatched to England, France, Belgium and Germany. He was discharged from the Army as a major in 1946 and returned to the New York Central Railroad.**

**Mr. Banks moved to Washington in 1949 and joined the Civil Aeronautics Board as chief of its transport service section. In 1951, at the start of the Korean War, he transferred to the Air Targets Division of the Air Force and in 1953, he joined the CIA.**

**Mr. Banks was named to the Railroad Hall of Fame at the Baltimore & Ohio Railroad Museum in Baltimore.**

**He was a member of the American Economic Association, Transportation Research Forum, National Association for Business Economists, American Association of Railroad Superintendents, the Yale Club of New York City and the Army-Navy Club of Washington.**

**Survivors include his wife of 62 years, Evelyn F. Banks of Washington, two children, Catherine Kelly Tueller of Washington and Charles H. Banks of McLean; and two grandchildren.**

###

**THE INSTITUTE OF ELECTRICAL/ELECTRONICS ENGINEERS  
AND  
THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS**

Invite you to our monthly luncheon meeting

**SPEAKER:** William L. (Bill) Withuhn  
Curator, History of Technology  
Smithsonian Institution

**TOPIC:** “AMERICA ON THE MOVE”

**PLACE:** American Public Transportation Association  
Conference Room - 11<sup>th</sup> Floor  
1666 K Street NW, Washington, DC 20006

**DATE/TIME:** Tuesday, May 10<sup>th</sup>, 11:30 AM

**LUNCH:** \$18.00 CASH AT THE DOOR

**RESERVATIONS:** [Gene.Cox@fra.dot.gov](mailto:Gene.Cox@fra.dot.gov) or Phone 202-493-6319  
[Brad.Luse@DullesMetro.com](mailto:Brad.Luse@DullesMetro.com) or 703-288-7069  
(Please reserve prior to Friday)

**ABOUT THE TOPIC:**

Bill will highlight with us “America on the Move” ... the new long term exhibition at the Smithsonian about the impact of transportation on American life, 1876-2000. Covering more than 26,000 square feet, it is – and will remain for the next twenty years or so – the largest gallery at the Smithsonian’s National Museum of American History.

The exhibition has been a hit with the public. More importantly to IEEE and ASME members, the exhibition has been very well received by transportation professionals .... Bill Harris, well-known former VP-Research & Development for the Association of American Railroads put it .... “ a great contribution to public understanding.” The exhibition shows transportation’s ever-present and crucial role in the shaping our economy and culture.

2.

Mr. Withuhn will briefly summarize the genesis of the project, which had active encouragement from TRB members and got started with funds from TEA-21. These funds were leveraged more than 8:1 by private support ... for a total of \$28 million, which funded not only the gallery installation, but also an extensive Web site, a teachers' multi-media kit for classroom use, and ongoing "electronic field trips" for upper elementary students. A brief power point presentation illustrates the basic ideas behind the structure of the exhibition. The speaker will be pleased to provide answers to your questions. Most impressive !

#### **ABOUT THE SPEAKER:**

Mr. Withuhn has been Curator of Transportation History at the Smithsonian Institution since 1983. Recently, Bill opened "*America On The Move*" .... a long term exhibition on transportation in the U.S., 1876-2000, occupying the largest gallery at the National Museum of American History. Secretary Mineta dedicated the exhibition in November 2003.

For this project and others during his tenure, Bill has been closely involved in raising over \$26 million, working with such donors as General Motors, AAA, ExxonMobil, Dupont, State Farm, UPS, APTA, AAR, ARTBA, and Norfolk Southern.

He has consulted for the Federal Railroad Administration (co-chairing a rule making task force, 1996-2000), the National Transportation Safety Board, the National Park Service, UNESCO in India, and numerous museums in the U.S. and overseas. He has long been active in the Transportation Research Board, as a founding member of the TRB History Committee, and as an appointed member of TRB's Task Force on Transportation Needs of the National Parks and Public Lands.

Prior to coming to the Smithsonian, Bill was a transportation consultant and Vice President of a company operating regional railroads and shortlines in the states of Maryland, Virginia, New York, Pennsylvania, and New Jersey. Before that, he served as a staff assistant to a U.S. Congressman from New York State.

3.

**On Bill's recommendation, the Congressman, - James Hastings - became the only northeastern Representative to co-sponsor the Shoup-Adams legislation that created Conrail, and ... Bill had a hand in writing some of the "3R" Act which focused on Local Rail Service.**

**Bill is a veteran of the U.S. Air Force Special Operations, and his awards include: two Distinguished Flying Crosses, a Bronze Star, the Presidential Unit Citation, and the Antarctica Service Medal.**

**He holds a Masters of Business Administration, with Honors, and a Masters in History (Science & Technology) ... both from Cornell University.**

---

---

*Special Notes:*

- \* **The speakers at our April 12<sup>th</sup> Meeting: John J, Shea, Jr., P.E., Director of Equipment and David C. Warner, P.E., Technical Supervisor-Equipment, Port Authority Transit Corporation (PATCO) over viewed the systems history of development, growth patterns, equipment overhaul & upgrading modernization and procurement plans, fare collection, maintenance and focused on future planning perspectives. A most informative presentation !**
- \* **The speaker/presenter for our June 14<sup>th</sup> Meeting will be announced.**
- \* **The "Cash at the Door" change reflects increased catering charges.**
- \* **The location of the June 14<sup>th</sup> meeting will be at the same APTA location .**
- \* **Please express your desires/recommendations for choices in subject matter and speaker/presenter choices for scheduling consideration.**
- \* **Invite an associate !**

###

**THE INSTITUTE OF ELECTRICAL/ELECTRONICS ENGINEERS  
AND  
THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS**

**Invite you to our monthly luncheon meeting**

**SPEAKER**

**TOM PEACOCK, P.E.**  
**Director of Technical Services**  
**American Public Transportation Association**

**TOPIC**

**APTA is in the Transit Standards Business**

**Location**

**American Public Transportation Association**  
**Conference Room - 11<sup>th</sup> Floor**  
**1666 K Street NW, Washington, DC 20006**

**Date/Time**

**Tuesday, June 14<sup>th</sup>, 11:30 AM**

**For Reservations:**

**Gene.Cox@fra.dot.gov or 202-493-6319**  
**Brad.Luse@DullesMetro.com or 703-288-7069**

**ABOUT THE TOPIC:**

Mr. Peacock will share with us, by use of a carefully prepared power point presentation, the comprehensive forethought displayed by APTA in the transitioning to becoming a Standards Development Organization with a formalized Permanent Funding Mechanism. The near term achievements, as well as those for the long term highlighted in his presentation will include:

- Why APTA is in the Transit Standards Business,
- How it got into the Business,
- The Scope of APTA's Transit Standards Program
- Results and Products Available
- Future Plans

**ABOUT THE SPEAKER:**

Tom Peacock holds a Master of Science in Mechanical Engineering from the University of Maryland, and a Master of Science in Management of Technical Operations from the Johns Hopkins University. He has 22 years of experience in Naval weapon systems research, development and program management, and 6 years with the Federal Railroad Administration, from which he is retired as director of the Motive Power and Equipment Division, where he played a leading role in many railroad equipment rulemakings.

Tom currently serves as Director of Technical Services for the American Public Transportation Association, where he is responsible for responding to the technical needs of APTA members including leading the effort to develop transit standards.

As always, the speaker will provide answers to your questions !

***Special Notes:***

- Guests are welcome !
- Officer nominations will be held at the September Meeting of the 2005/2006 season

**A pleasant summer recess is wished for all!**

**###**



**THE INSTITUTE OF ELECTRICAL/ELECTRONICS ENGINEERS  
AND  
THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS**



**Invite You To Our Monthly Luncheon Meeting  
TUESDAY, December 13th, 11:30 am**

**Speaker:** Professor JOSEPH M. SUSSMAN, JR East Professor in Civil and Environmental Engineering and the Engineering Systems Division at the Massachusetts Institute of Technology

**Topic:** INTELLIGENT TRANSPORTATION SYSTEMS: Where We Have Been and Challenges and Opportunities for the Future

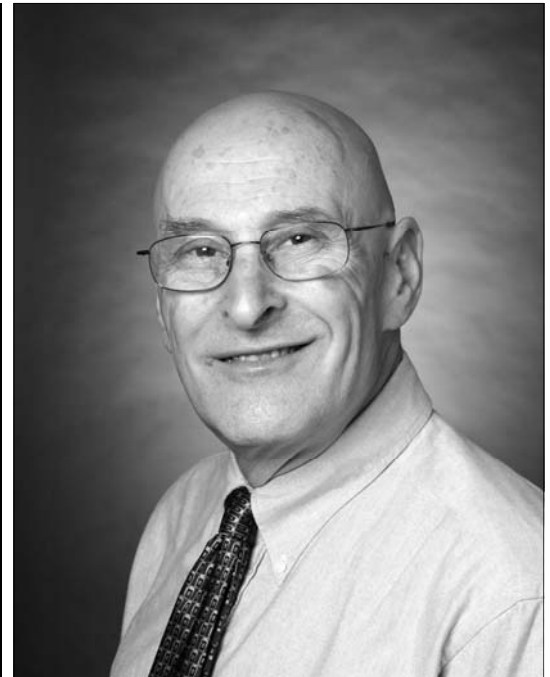
**Place:** American Public Transportation Association  
Conference Room - 11<sup>th</sup> Floor  
1666 K Street, NW, Washington, DC

**Red Line:** Farragut North (K Street Exit)  
**Orange/Blue Lines:** Farragut West (17th Street Exit)

**Date/Time** TUESDAY, December 13th, 11:30 am

**Lunch:** \$18:00 CASH AT THE DOOR

**Reservations:** Gene.Cox@fra.dot.gov or 703-915-2828 (cell)  
Karl Berger kwb@dcm-va.com or 703-803-7917  
Ken.Briers@parsons.com or 202-775-3397  
(Reservations by 4:00 PM Friday December 9th)



**ABOUT THE TOPIC:**

**A focus on Intelligent Transportation Systems (ITS); A National Program Plan and a Ten-year Vision of urgency consisting of major stakeholders to include Federal, state and local governments. Reflective of new and transformed transportation institutions, approaches for pursuing transportation goals including increased security and mobility, new mechanisms for conducting transportation-related research and exploiting its results.**

**ABOUT THE SPEAKER:**

Dr. Sussman has served as an MIT faculty member for 37 years. He is the author of **Introduction to Transportation Systems** and **Perspectives on Intelligent Transportation Systems (ITS)**, and received the Roy W. Crum Distinguished Service Award from TRB, its highest honor, "for significant contributions to research" in 2001. Dr. Sussman specializes in the study of "Complex, Large-Scale, Integrated, Open Systems" (CLIOS), and has developed the CLIOS process. He has worked extensively on Intelligent Transportation Systems (ITS), helping to build the U.S. national program. While serving as the first Distinguished University Scholar at IVHS AMERICA (1991-92), he was a member of the core group that wrote the Strategic Plan for IVHS in the U.S. In 2002 ITS Massachusetts named its annual "Joseph M. Sussman Leadership Award" in his honor.

Dr. Sussman has focused recently on developing a new methodology for regional strategic transportation planning as a special case of the CLIOS process, called ReS/SITE ( **R**egional **S**trategies for the **S**ustainable **I**ntermodal **T**ransportation **E**nterprise), integrating ideas from strategic management, scenario-building, and technology architectures, based on cases in the U.S. and abroad. His research in railroads focuses on service reliability, rail operations, maintenance, high-speed rail (HSR), and risk assessment; he has had a major impact on the railroad industry in the U.S. and abroad, and has several prize-winning papers.

Dr. Sussman chaired the TRB committee overseeing the Federal Railroad Administration's R&D program from 1996 to 1999 and has chaired a TRB panel reviewing the federal transportation strategic plan for R&D. He has worked on the application of computers to engineering problem-solving, specializing in simulation methods and their application to the transportation area, and he contributed to the development of ICES (Integrated Civil Engineering System), among the most widely-used computer systems in the engineering field. He has developed and taught undergraduate and graduate subjects in transportation, engineering systems, information systems, simulation methods, intelligent transportation systems, and technology and policy. He has written extensively on transportation education philosophy and program design, and won numerous awards.

Dr. Sussman earned a B.C.E. from CCNY in 1961, an M.S.C.E. from the University of New Hampshire in 1963, and a Ph.D. in Civil Engineering Systems from MIT in 1967. He joined the MIT faculty in 1967, serving as the Associate Dean of Engineering for Educational Programs from 1977 to 1979, Head of the Department of Civil Engineering from 1980 to 1985, and Director of the Center for Transportation Studies (CTS) from 1986 to 1991. During his term, research volume grew by 400%, to more than \$4 million annually at that time, reflecting an important expansion of CTS' research agenda.

Dr. Sussman is a member of the American Society of Civil Engineers, the American Society for Engineering Education, Transportation Research Forum, Transportation Research Board (Executive Committee chair in 1994; member, 1991-1998), ITS America (Board of Directors, 1995-2001) and ITS Massachusetts (Board of Directors, 1996-2001). He is a founder of Multisystems of Cambridge, MA.

## IEEE/ASME Land Transportation Committee SPECIAL

### NOTES:

- E-mail is providing quick and assured meeting announcement notification, as well as for other purposes !
- We are always looking for programmatic development; your suggestions please!
- Tell us of other associates to be placed on the meeting announcement list! Give us their names and e mail addresses.
- Guests are always welcome; bring an associate !



Professor Joseph M. Sussman of MIT, member of American Society of Civil Engineers, the American Society for Civil Engineering Education, Transportation Research Forum, Transportation Research Board (Executive Committee chair in 1994; member, 1991-1998), ITS America (Board of Directors, 1995-2001), and ITS Massachusetts (Board of Directors, 1996-2001), and founder of Multisystems of Cambridge, MA.

**TO LEARN MORE ABOUT DR. SUSSMAN, AND TO CONTACT HIM,**

**GO TO:** <http://cee.mit.edu/index.pl?id=2378&isa=Category&op=show>

Dr. Sussmann offers a free course in Transportation Systems at MIT's OpenCourseWare site. OpenCourseWare is a free and open educational resource for faculty, students, and self-learners around the world. OCW supports MIT's mission to advance knowledge and education, and serve the world in the 21st century. It is true to MIT's values of excellence, innovation, and leadership.

To take the course, and view more than 500 lecture slides in PDF format, based on the instructor's book *Introduction to Transportation Systems*, go to: <http://ocw2.mit.edu/OcwWeb/Civil-and-Environmental-Engineering/1-221JTransportation-SystemsFall2002/CourseHome/index.htm>

### THE INSTITUTE OF ELECTRICAL/ELECTRONICS ENGINEERS AND THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS

Invite You To Our Monthly Luncheon Meeting

**TUESDAY, December 13th, 11:30 am**

**Speaker:** Professor JOSEPH M. SUSSMAN, JR East Professor in Civil and Environmental Engineering and the Engineering Systems Division at the Massachusetts Institute of Technology

**Topic:** INTELLIGENT TRANSPORTATION SYSTEMS:  
Where We Have Been and Challenges and Opportunities for the Future

### FUTURE MEETINGS:

January 10th  
February 14th  
March 14th  
April 11th  
May 9th  
June 13th



### NEED MORE INFORMATION? CALL AN OFFICER!

**Chairman:**  
Gene.Cox@fra.dot.gov 703-915-2828

**Vice-Chairman:**  
Karl Berger <kwb@dcm-va.com> 703-803-7917

**Secretary/Treasurer:**  
Ken.Briers@parsons.com 202/775-3397

### IEEE/ASME Land Transportation Committee MAILING LIST

- Please check the mailing label and provide any necessary corrections.
- If we have not heard from someone in two (2) years, that person is dropped from the mailing list.
- If you would like to receive your notice by email, contact Karl Berger at [kwb@dcm-va.com](mailto:kwb@dcm-va.com).

IEEE/ASME  
Land Transportation Committee  
10718 Oakenshaw Court  
Burke, VA 22015



FIRST CLASS