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PROCEEDINGS —

Twenty-third Annual Meeting

Volume XXIII • Number 1

1982



TRANSPORTATION RESEARCH FORUM

PROCEEDINGS —

Twenty-third Annual Meeting

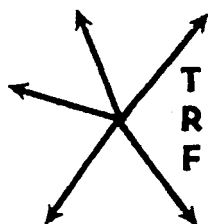
Theme:
“Developing Concinnity in Transportation”

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Fairmont Hotel
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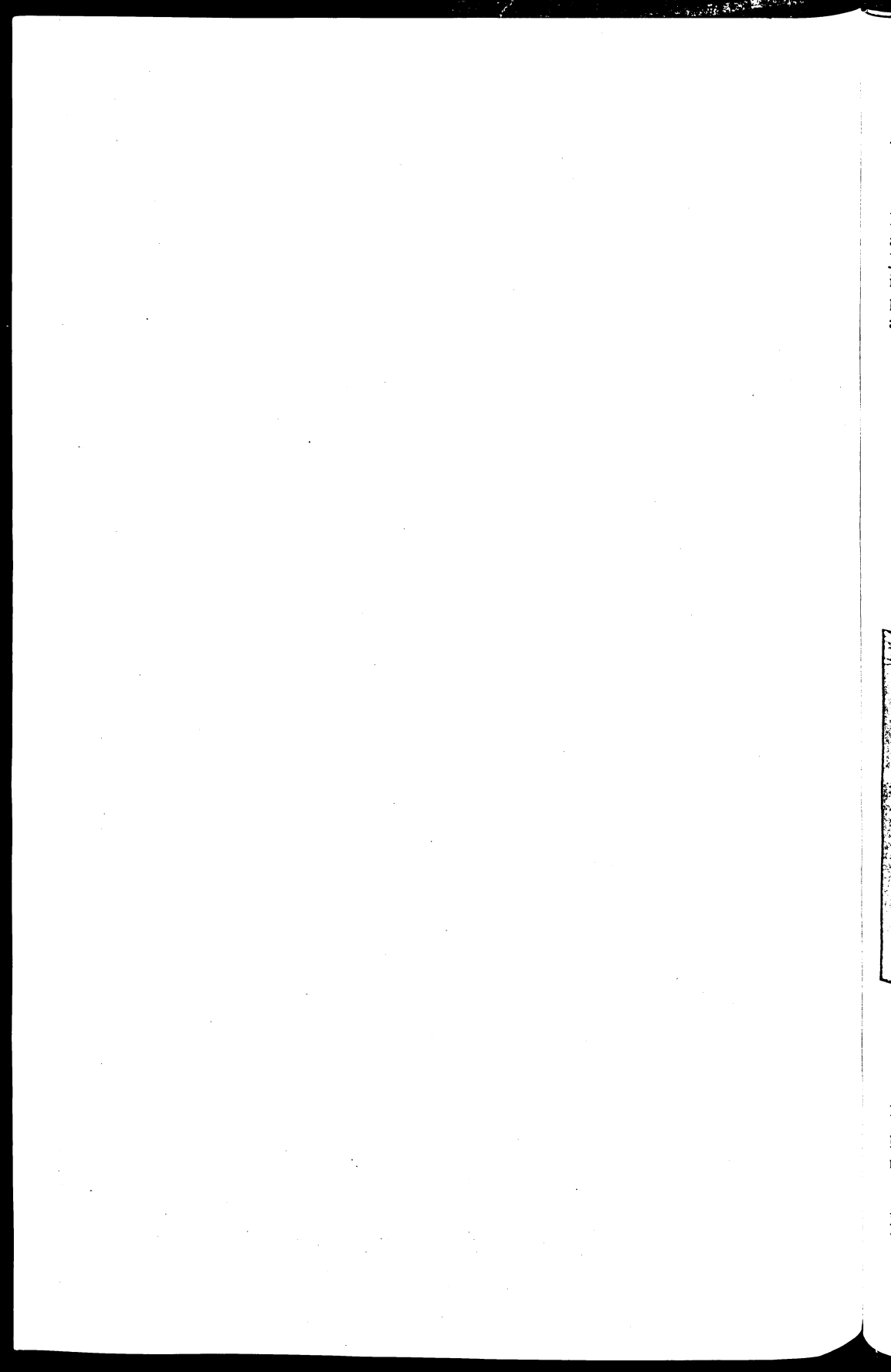
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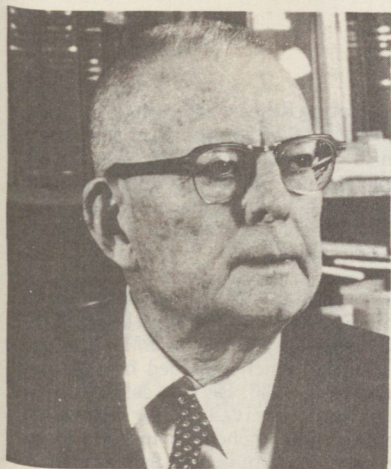
TRANSPORTATION RESEARCH FORUM

APPENDIX



TRF Award For Distinguished Transportation Research

This award is made to those whom the TRF Council, representing the membership, wishes to honor for their outstanding research contribution to the field of transportation. The first such award was made to Louis Sillcox in 1977, followed by the awards to James R. Nelson in 1978 and to James C. Nelson in 1979. The current award to Dr. Deming is the fourth one conferred. It is intended that every award be accompanied by a life membership in TRF and that the recipient's picture and biographical sketch be published in the *Annual Proceedings* volume for the year the award is conferred.



DR. W. EDWARDS DEMING

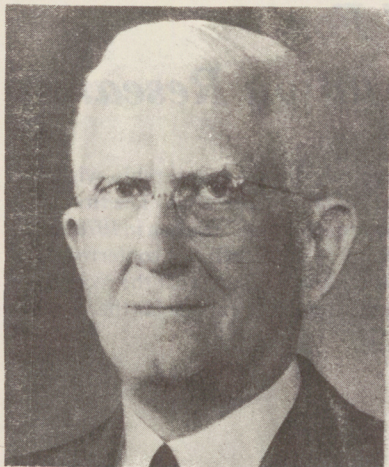
The Transportation Research Forum in 1982 proudly confers its Distinguished Transportation Research Award on Dr. W. Edwards Deming for his work in the application of statistical methods to transportation problems. The award also recognizes Dr. Deming's contributions to quality control and productivity enhancement.

Dr. Deming is best known for his work in educating Japanese industry in the application of statistical science to industrial processes. He showed the Japanese how the principles of sampling, properly employed by management, could result in improvements in both quality control and productivity. In 1952, the Japanese Union of Scientists and Engineers established the Deming Prize, awarded annually for outstanding contributions to the use of statistical theory in quality control.

In 1960, Dr. Deming received the Second Order Medal of the Sacred Treasure from the Emperor of Japan.

Dr. Deming's career spans a period of more than 60 years. He has served with the U. S. Department of Agriculture and the Bureau of the Census, and he has taught at Yale University, New York University, University of Colorado, Colorado School of Mines, and the University of Wyoming. He has also been a consultant to many rail and motor carriers, and has served as statistical advisor to numerous transportation trade associations.

He received the Bachelor of Science degree from the University of Wyoming in 1921, the Master of Science degree from the University of Colorado in 1924, and the Ph.D. degree from Yale University in 1928. He is the author or co-author of eight books and brochures and over 160 papers.



LEWIS KETCHAM SILLCOX

Lewis Ketcham Sillcox, 1977 recipient: Born in 1886 in Germantown, PA. Dr. Sillcox received his early education in New York City and graduated from L'Ecole Polytechnique, Brussels, Belgium in 1903. He began his railroading career with the New York Central and Hudson River Railroad that same year. In succeeding years, he served in various foundry shops, as mechanical engineer with the Canadian Northern Railway System and the Illinois Central Railroad System, and as general superintendent of motive power for the Chicago, Milwaukee, St. Paul and Pacific Railroad. The bulk of his career, however, has been with the New York Air Brake Co., which he joined in 1927 and from which he retired in 1959 as Vice Chairman and member of the Board of Directors. From there he went to become the first Director of New York State's Office of Transportation. Dr. Sillcox is recognized as one of the country's foremost authorities on railway transportation and mechanical and electrical engineering, and since his retirement has devoted most of his time to lecturing at leading universities and colleges. He has been published extensively in the professional literature in transportation.



JAMES RODNEY NELSON

The Transportation Research Forum takes pride in presenting its Award for Distinguished Transportation Research to James Rodney (Jim, East Coast) Nelson, a long-time member of the Forum and a past Council Member, for his distinguished career as a scholar, educator, economist, author, humorist, adviser, and friend.

Jim Nelson was born July 7, 1915, in Bisbee, North Dakota, the son of Edward Lawrence and Jessie (Uhl) Nelson. After a boyhood spent in Iowa, he entered Oberlin (Ohio) College which awarded him an AB degree in Economics in 1936. He was selected as a Rhodes Scholar, and received a BA degree in Philosophy, Politics, and Economics in 1938 from Oxford University, England. In 1947 Harvard University awarded him his Ph.D. in Economics. Amherst College awarded him a Master of Arts (Honorary) degree in 1951.

At Oberlin College, Jim taught as an Instructor in Economics, 1941-42; Assistant Professor, 1947-49; and Associate Professor, 1949-50.

In the Federal Government he served as an economist in the Office of Price Administration, 1942-44; and in the Foreign Economic Administration, 1944. From 1945-46, he was an investment counselor with the firm of Scudder, Stevens and Clark in Boston.

Jim was Chief of the United Kingdom, Ireland, and Iceland Branch of the Economic Cooperation Administration, 1948-50; and Director, Office of Economics, U.S. Department of Transportation, 1967-68.

From 1963-64, he served as Chairman, Board of Economic Advisors to the Governor of the Commonwealth of Massachusetts.

At Amherst College, Jim taught as Assistant Professor of Economics, 1946-47; Associate Professor of Economics, 1950-51; and has been Charles E. Merrill Professor of Economics since 1951.

Jim is a prolific author and has written or edited five books, and over thirty book chapters and articles in the fields of transportation and public utility economics. He has been called the Shakespeare of the transportation economists because of his use of the English language. He is fluent in French and has a working knowledge of several other languages. His expansive vocabulary is attested to by his craze for cross-word puzzles.

Jim's fields of professional specialization include both transportation and public utility economics as well as industrial organization and control. He is recognized as an authority in the United States on marginal cost pricing in these fields.

He is a member of the American Economic Association, American Association of University Professors, Phi Beta Kappa and Transportation Research Forum.

Jim is a frequent speaker at professional meetings and witness in proceedings involving economic issues before government regulatory agencies and other groups. He is well known for his expert testimony, as well as his wit and humor.

Jim married Jane Louise Elwell on June 28, 1941. They have two children, Dr. Eric Reed Nelson and Ingrid Elinor Nelson.

One of the greatest of Jim's achievements is the large number of his students who have gone forward to graduate school and further careers in economics. He is known throughout the transportation research profession for his sound and unselfish advice and valued friendship.



JAMES CECIL NELSON

James Cecil Nelson, the 1979 recipient is a charter member of the Forum and a past Council member. Born in Bickleton, Washington, in 1908, he received his A.B. degree in Economics and History in 1930 from the University of Washington. An M.A. degree followed in 1931 from Ohio State University, and a Ph.D. degree from the University of Virginia in 1934, both in Economics. In 1956-58, he was a Senior Staff Member, Brookings Institution, which published his book *Railroad Transportation and Public Policy*, 1959. At Washington State University, Jim was Professor of Economics from 1947 until his retirement in 1974.

Jim's career in the Federal Government was studded with accomplishments. It started in 1938 at the U.S. Department of Agriculture. Then in 1940-41, he was Principal Transportation Economist, National Resources Planning Board. At the NRPB, in his paper on "New Concepts of Transportation Regulation" published in 1942 in *Transportation and National Policy*, Jim broke new ground in recommending complete deregulation of interstate trucking and re-application of the anti-trust laws. Between 1941 and 1944, at the Board of Investigation and Research, Jim

directed and largely authored the earliest comprehensive investigation of motor carrier entry control. Between 1944 and 1947, he served in leading capacities at the Office of Defense Transportation and the Transportation Division, U.S. Department of Commerce.

In the 1970's, Jim has focused attention on transport policy abroad, teaching in Australia and Canada. He co-authored, with Professor Trevor D. Heaver, *Railway Pricing Under Commercial Freedom: The Canadian Experience*, 1977. His contributions in the professional literature have been very extensive.

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What is TRF?

The primary purpose of the Transportation Research Forum is to provide an outlet for the expression of ideas whose time has come. It is a unique organization of professionals in the field of transportation. Its purpose is to provide a common meeting ground for both those who use research—carrier managers, shippers, labor unions, legislators, and governmental policy makers and program managers at all levels—and those who conduct research—whether in government, industry, consulting firms or universities. Thus the TRF provides a forum for the discussion of issues and research applicable to economic, management, public policy, and broad technological problems involving transportation.

TRF encompasses the entire range of disciplines relevant to transportation, and all forms of transport. Among its membership are those interested in the transportation aspects of:

- Economics, Marketing, and Pricing
- Financial Controls and Analysis
- Labor and Employee Relations
- Carrier Management, Organization and Planning
- Technology and Engineering
- Urban Planning
- Federal, State and Metropolitan Policy
- Economic Development
- Equipment Supply
- Regulation
- Safety
- Environment and Energy
- Education

History of TRF

A small group of transportation researchers in New York started the New York Transportation Forum in March 1958. Monthly luncheon meetings were established at that time and still continue.

In December 1959 at the meeting of the American Economic Association in Washington, D.C., it was decided to hold an organization meeting of the American Transportation Research Forum the following year.

The first organizing meeting of the American Transportation Research Forum was held in St. Louis, Missouri in December 1960 in conjunction with the Annual Meeting of the American Economic Association and the Allied Social Sciences. The New York Transportation Research Forum sponsored the meeting and became the founding chapter of the TRF.

The Lake Erie, Washington and Chicago chapters were organized soon after the ATRF was organized. All have been functioning since that time and have now been

joined by three chapters in California, centered in San Francisco, Los Angeles, and Sacramento, together with one each in New England and Philadelphia.

Area of interest chapters were initiated in the US during the year 1981, with the activation of an Agricultural Transport Research Chapter and an International chapter on Transport and Development; other such chapters have been proposed for Personal Computer Users, Transport Data, Transport Accounting and Costing, and Transport Legal Research.

The name was shortened to Transportation Research Forum because of the intense interest in Transportation Research in Canada. The Canadian Transportation Research Forum has over 300 members. A TRF organization has been established in Australia, and interest in similar Transportation Research Forum organizations has been expressed in other countries.

How Active is TRF?

In addition to monthly meetings of the local chapters, annual meetings have been held ever since that first meeting of one session in 1960. Now three-day meetings of 25 to 35 sessions are held annually in various locations in the U.S. and Canada, usually in late October or early November. In addition, the Canadian TRF holds an annual meeting, usually in the spring.

The TRF 1983 Annual Meeting, scheduled for Washington, DC during the first week of November, will be organized as a TRF Silver Jubilee International Meeting. The international theme has been adopted to emphasize the expanding international concerns in US transport over the past quarter century; to offer transport specialists in the US and in other countries a chance to learn from each other; and to provide an opportunity for spreading the TRF concept to transport professionals throughout the world.

TRF has adopted four innovations for its meetings:

1. Prepublication of the papers (before the meeting, not after) so those interested may read them in advance and come prepared to discuss and critique.
2. Speakers typically summarize (not read) their papers, then discuss their points with the audience.
3. Those in the audience are encouraged to participate actively in any session; time is allowed for discussion of each paper.
4. In addition to formal, prepared paper sessions, many sessions are planned as debates or panel discussions, in order that current and emerging issues and research results may be included in the meetings.

Beginning with the 1961 meeting in New York City which contained nine papers for the three sessions, the annual Proceedings have been published before each meeting. The current TRF PROCEEDINGS contain over 70 papers, in some 750 pages, as a doubled columned, hard bound volume. Each volume is widely recognized as an indispensable resource document in transportation.

Copies of all prior TRF PROCEEDINGS are available. Before each Annual Meeting, a copy of the current TRF PROCEEDINGS is mailed to each member.

Past Presidents

Transportation Research Forum

- 1982 Michael S. Bronzini
- 1981 Jay A. Smith, Jr.
- 1980 Samuel E. Eastman
- 1979 Lana R. Batts
- 1978 Carl J. Libra
- 1977 Gerald Kraft
- 1976 Edward Morlok
- 1975 Barry A. Brune
- 1974 Richard Shackson
- 1973 Harvey M. Romoff
- 1972 Arthur W. Todd
- 1971 Herbert E. Bixler
- 1970 Paul H. Banner
- 1969 George W. Wilson
- 1968 Donald P. MacKinnon
- 1967 David L. Glickman
- 1966 Edward Margolin
- 1965 Robert A. Bandeen
- 1964 Gayton Germane
- 1963 Herbert O. Whitten
- 1962 Herbert O. Whitten
- 1961 Herbert O. Whitten
- 1960 Herbert O. Whitten



