Road Transport Technology—4

Proceedings of the Fourth International Symposium on Heavy Vehicle Weights and Dimensions

Edited by Christopher B. Winkle
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Organized by the University of Michigan Transportation Research Institute in cooperation with the International Forum for Road Transport Technology

Ann Arbor, USA, June 25–29, 1995

Edited by Christopher B. Winkler

University of Michigan
Transportation Research Institute
Preface

Christopher B. Winkler
University of Michigan Transportation Research Institute, USA

The Fourth International Symposium on Heavy Vehicle Weights and Dimensions took place at the University of Michigan in Ann Arbor on June 25 through June 29, 1995. The symposium was a function of the International Forum for Road Transport Technology.

The members of the technical committee of the symposium were C.B. Winkler (Chairman, USA), J. Aurell (Sweden), R. Cantieni (Switzerland), D. Cebon (UK), J. de Pont (New Zealand), M. Huhtala (Finland), B. Lord (USA), C.G.B. Mitchell (UK), R.A. Pearson (Australia), J. Preston-Thomas (Canada), L. Strawhorn (USA), P.F. Sweatman (Australia), N.C. Ware (USA), and J. Woodrooffe (Canada).

One hundred and eleven individuals attended as delegates to the symposium. They came to Ann Arbor from twenty-one countries: forty-three from the United States; twenty-one from Canada; nine from Australia; five each from New Zealand and Sweden; four from the United Kingdom; three each from Brazil, France, and the Netherlands; two each from Norway, Switzerland, and Taiwan ROC; and one each from Austria, Bangladesh, Belgium, Finland, Germany, Hungary, Korea, South Africa, and Venezuela.

The symposium was opened by Robert Welke, Chief Engineer/Deputy Director of the Michigan Department of Transportation (USA). Mr. Welke presided over Sunday’s opening plenary session, which included four additional keynote speakers: George Reagle, Associate Administrator for Motor Carriers, Federal Highway Administration, U.S. Department of Transportation (USA); Burkhard Horn, Head of the Road Transport Research Programme, OECD (United Nations); John Hurlstone, Chairman of the National Road Transport Commission (Australia); and Richard Turner, Director of the Freight Transport Association (UK). Over the following four days, an additional sixty-seven formal presentations were given in a mixture of plenary and parallel technical sessions and panel discussions. The symposium closed with two endnote presentations given by Robert Ervin, Head of the Engineering Research Division, University of Michigan Transportation Research Institute (USA) and Byron Lord, Chief of Engineering Application Division, Federal Highway Administration, U.S. Department of Transportation (USA).

An essential purpose of this series of symposia is to promote the intermixing of various elements of the road transport community. On one hand, these meetings seek to bring together members of the vehicle and infrastructure technical communities, and on the other hand they are intended to attract both policy makers and technical people. To enhance the interchange between these several groups, the presentations of the fourth symposium generally were not organized by topic. Rather, papers covering several topics were typically included in each individual session.

To enhance the utility of this document, however, the written papers have been reorganized by topic and, therefore, are not presented according to session as is traditional in technical proceedings. The sixty-eight papers herein are divided into three major topic areas: policy, regulation and economics; infrastructure technology; and vehicle technology. Each of these areas is subdivided into a number of more specific topics.

Many people and organizations deserve our sincere thanks and appreciation for helping make the symposium the success that it was. The chairman and the members of the technical committee wish to especially acknowledge the contributions of the following:

- Sponsoring organizations: Federal Highway Administration United States Department of Transportation; Great Lakes Center for Truck and Transit Research; University of Michigan Transportation Research Institute.
- Major sponsor: Volvo GM Heavy Truck Corporation.
- Session chairmen: Rod Addis, John Aurell, John Billing, Reto Cantieni, David Cebon, John de Pont, John Edgar, Bob Ervin, Paul Fancher, Tom Gillespie, Matti Huhtala, Bill Kenis, Kit Mitchell, Jon Preston-Thomas, Peter Sweatman, Nate Ware, and John Woodrooffe.
- Chrysler Center staff, especially Edith Baise, Terry Bennett, Renée Heath, Annette Petrusso, Jane Poling, and Nancy Worsch.
- UMTRI staff, especially Ardith Bates, Scott Bogard, Annise Johnson, John Koch, Ben Powell, Kathy Richards, Bob Sweet, Jim Thomson, and Pat Waller.
- Special thanks to Peter Sweatman, Kit Mitchell, and Nate Ware.
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