

## **PREFACE AND OVERVIEW**

These proceedings represent a further step forward in the understanding and solution of transportation and traffic problems. This is the 14th publication in the series of Symposia on Transportation and Traffic Theory. We are endeavouring to continue in the tradition of Professor Robert Herman and a group of scientists who gathered at the General Motors Research Laboratory in Michigan and initiated this undertaking in 1959. We have all been inspired by their leadership.

It is with great sadness that we learned that Professor Robert Herman (Honourary Member) and Professor Michael Cremer (International Advisory Committee) have passed away since our last symposium. We have included a tribute to them in this book.

This publication goes a long way towards providing innovative, advanced knowledge regarding traffic and transportation problems and the analytical tools required to achieve their solutions. Transportation issues about: Safety, Mobility, Efficiency, Productivity, Planning and Environmental elements are of direct interest to a growing number of professionals in the fields of communication, data processing, electronics, environmental quality, policy makers and others. Every advanced transportation or traffic system, existing or under development, absorbs its "know how" from models, methods and analyses represented by papers like the ones in this publication. To name but a few: ATMS (Advanced Traffic Management System), ATIS (Advanced Traveller-Information System), APTS (Advanced Public Transportation System), ACVO (Advanced Commercial Vehicle Operations) and ETC (Electronic Toll Collection), all of which are known as ITS (Intelligent Transportation Systems). ITS can be seen as a link between technology and the driver-vehicle-road system and models.

There is a saying: "A man's real worth is determined by what he does, when he has nothing to do." The contributors to this publication are among a group of scientists who even when they have nothing to do, think how to resolve and deal with transportation and traffic problems. They are following George Bernard Shaw's remark that people look at existing things that do not work (on transportation and traffic problems) and ask: why? But dream about things that do not exist, but work and ask: why not?

This book has been compiled to follow the same session order as the Symposium and each of the ten chapters has been prefaced by three sayings.

An overview of these chapters has been created in the following table. The thirty-five papers in this publication represent contributions from sixteen different countries.