



**T 2002**

**Proceedings of the 16<sup>th</sup> International Conference on  
Alcohol, Drugs and Traffic Safety  
Montréal, Canada, August 4-9 2002**

**Volume 1**

**Daniel R. Mayhew & Claude Dussault (Editors)**

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Montreal, August 4 – 9, 2002.

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## Introduction

The 16<sup>th</sup> International Conference on Alcohol, Drugs and Traffic Safety (T' 2002) was held in Montreal, Quebec, Canada at Montreal's Convention Centre on August 4<sup>th</sup> to 9<sup>th</sup>, 2002. It was organized by the Société de l'assurance automobile du Québec (SAAQ) for the International Council on Alcohol, Drugs and Traffic Safety (ICADTS), an independent non-profit body, which has hosted this series beginning with the first international conference in Stockholm in 1950.

Similar to previous conferences, and in support of the goals of ICADTS, the primary purposes of T' 2002 were to provide a multidisciplinary, international forum to discuss the current state of knowledge on alcohol, other drugs and traffic safety as well as to disseminate and share information among researchers, practitioners and policy-makers in this field.

The importance of the conference and the significance of the impaired driving problem internationally was underscored at the Opening Ceremonies, which featured remarks by the Chairman of the SAAQ, the President of ICADTS, the Administrator of the U.S. National Highway Traffic Safety Administration (NHTSA) on behalf of the U.S. Secretary of Transportation, Quebec's Minister of Transport, and Canada's Minister of Transport. The Opening ceremonies also provided a venue for presentations of the prestigious Widmark Award and the Haddon Award to accomplished colleagues in the field.

The conference featured several keynote addresses by distinguished experts on contemporary research and program/policy issues relevant to the field of alcohol, drugs and traffic safety. These included the following topics:

- Risk and protective factors in adolescent health, behaviour, and development: Implications for safety;
- Risky driving from a decision-making perspective;
- Treatment of DWI offenders: From self-change to integrated treatment; and
- Operation Nez Rouge (an innovative program in Quebec that provides safe rides home for drinkers).

Information on the magnitude of, and trends in, the alcohol-crash problem in Canada and the United States as well as innovative strategies that have been adopted in these countries to reduce the death and injury toll caused by impaired driving were also featured in plenary session.

The conference featured 32 parallel technical sessions, including the following organized by ICADTS Working groups:

- Illegal Drugs and Driving;
- Clinical Signs of Illegal Drugs;
- Guidelines for Medicinal Drugs;
- Alcohol Ignition Interlocks; and
- Recreational Vehicles.

A special session was also organized to discuss IMMORTAL (Impaired Motorists, Methods of Roadside Testing and Assessment for Licensing), a major research programme involving a consortium of 10 partners from a range of European institutions.

Over 200 oral papers were presented covering the major topics of the conference, including:

- Driver Characteristics
- Pharmacology and toxicology
- Epidemiology
- Rehabilitation
- Prevention
- Driving performance
- Emerging, cross-cutting issues

Poster presentations were also encouraged at T' 2002, and a panel of judges evaluated the 30 posters on display to select one for the ICADTS Poster Award, which was presented at the closing ceremonies. Montreal is the first time this award of \$500 U.S. has been conferred by the ICADTS Foundation. The Award is intended to encourage scientists to present high quality posters at ICADTS conferences demonstrating original and sound research in support of ICADTS objectives.

The closing ceremonies also included presentations on ICADTS working group activities and future plans, and a summary of the conference and new directions for the field. SAAQ, the Montreal conference organizers, provided closing remarks and an invitation was extended by the next conference organizers for the 17<sup>th</sup> International Conference scheduled for Glasgow, Scotland in August 2004.

These proceedings include the oral and poster scientific presentations of the Conference as well as opening and closing ceremony remarks, and award presentations. It constitutes the formal record of the conference and documents the current state of the art in the field of alcohol, drugs and traffic safety, as captured in the contributions of the speakers and poster presenters. The Scientific program committee, the Montreal conference organizers, and the editors, thank them for their major contribution to the success of the conference. Thanks are also extended to the over 400 delegates from 22 countries who participated in the sessions by raising interesting and challenging questions as well as sharing their information on key research and policy/program issues in the field.

***Daniel R. Mayhew and Claude Dussault***  
**Editors**

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## **T 2002 Organizers**

The 16<sup>th</sup> International Conference on Alcohol, Drugs and Traffic Safety is organized by the Société de l'assurance automobile du Québec (SAAQ) for the International Council on Alcohol, Drugs and Traffic Safety (ICADTS)

### **Société de l'assurance automobile du Québec**

The Société de l'assurance automobile du Québec is a government of Québec agency whose mission is to insure and protect people from the risks inherent in use of the road. Québec's automobile insurance corporation has also been given the task of keeping statistics, doing research and developing strategy for action on road safety.

Since driving while impaired by alcohol or drugs is one of the main causes of crashes, the SAAQ is very interested in the varied work done on the subject in different parts of the world. As host, the SAAQ intends to spare no effort in making the 16<sup>th</sup> International Conference on Alcohol, Drugs and Traffic Safety a unique and profitable experience, an occasion to review progress on a half-century of studies in the matter and sketch a path for the future.

### **International Council on Alcohol, Drugs and Traffic Safety**

The International Council on Alcohol, Drugs and Traffic Safety (ICADTS) is an independent nonprofit body whose only goal is to reduce mortality and morbidity brought about by misuse of alcohol and drugs by operators of vehicles in all modes of transportation.

To accomplish this goal, the Council sponsors international and regional conferences to collect, disseminate and share essential information among professionals in the fields of law, medicine, public health, economics, law enforcement, public information and education, human factors and public policy.

## **Organizing Committees**

### *Executive Committee*

<b>Jacques Brind'Amour, Convenor</b>	Société de l'assurance automobile du Québec (CAN)
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## International Scientific Committee

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## **Past Presidents of ICADTS**

1950 - 1953 Cecil Heath	UK
1953 - 1969 Sir Edward Wayne	UK
1969 - 1983 Robert F. Borckenstein	USA
1983 - 1989 Milan R. Valverius	SWEDEN
1989 - 1992 Robert B. Voas	USA
1992 - 1995 Herbert M. Simpson	CANADA
1995 - 1997 Jack McLean	AUSTRALIA
1997 - 2000 Hans Laurell	SWEDEN

## **ICADTS Conferences**

### **1<sup>st</sup> - 1950 Stockholm, SWEDEN**

Alcohol and traffic. Proceedings of the first international conference on alcohol and traffic. Stockholm, Sweden 1950 August 30 - September 1, Ed. R. Wagnsson. Stockholm, 1951. 336p.

### **2<sup>nd</sup> - 1953 Toronto, CANADA**

Alcohol and road traffic. Proceedings of the second international conference on alcohol and road traffic. Toronto, Canada, September 9 to 12, 1953. Toronto, 1955. 167p.

### **3<sup>rd</sup> - 1962 London, ENGLAND**

Alcohol and road traffic. Proceedings of the third international conference on alcohol and road traffic. London, September 3-7, 1962. Ed. John Harvard. London: British Medical Association, 1963. 362p.

### **4<sup>th</sup> - 1965 Bloomington, Indiana, USA**

Alcohol and traffic safety. Proceedings of the fourth international conference on alcohol and traffic safety. Bloomington, Ind., December 6-10, 1965. Ed. R. Harger. Bloomington, Ind.: Indiana University, 1966. 353 p.

### **5<sup>th</sup> - 1969 Freiburg im Breisgau, WEST GERMANY**

Alkohol und Verkehrssicherheit. Konferenzbericht der 5. internationalen Konferenz über Alkohol und Verkehrssicherheit, Freiburg im Br. 1969. Freiburg im Breisgau, 1970. 467p.

### **6<sup>th</sup> - 1974 Toronto, CANADA**

Alcohol, drugs and traffic safety. Proceedings of the sixth international conference on alcohol, drugs and traffic safety, Toronto, September 8-13, 1974. Ed. S. Israelstam and S. Lambert. Toronto, Canada. Addiction Research Foundation of Ontario, 1975. 939p.

### **7<sup>th</sup> - 1977 Melbourne, AUSTRALIA**

Seventh international conference on alcohol, drugs and traffic safety. Proceedings. Melbourne 23-28 January 1977. Ed. Ian Johnston. Canberra: Australian Government Publishing Service. 1979. 712p.

**8<sup>th</sup> - 1980 Stockholm, SWEDEN**

Alcohol, drugs and traffic safety. Proceedings, 8th International Conference on Alcohol, Drugs and Traffic Safety, June 15-19, 1980, Stockholm, Sweden. Ed. Leonard Goldberg. Stockholm: Almqvist & Wiksell International, 1981. 3 vol. 1489p.

**9<sup>th</sup> - 1983 San Juan, PUERTO RICO**

Alcohol, drugs and traffic safety. Proceedings of the 9th International Conference on Alcohol, Drugs and Traffic Safety, November 1983, San Juan, Puerto Rico, Ed. S. Kaye and G. Meier. Report No. DOT-HS-806-814, United States Department of Transportation, 1985, 1616p.

**10<sup>th</sup> - 1986 Amsterdam, THE NETHERLANDS**

Alcohol, drugs and traffic safety. Proceedings of the 10th International Conference on Alcohol, Drugs and Traffic Safety, September 9-12, 1986, Amsterdam, The Netherlands. Ed. P.C. Noordzij and R. Roszbach, The Netherlands, 1987. 685p.

**11<sup>th</sup> - 1989 Chicago, Illinois, USA**

Alcohol, drugs and traffic safety. Proceedings of the 11th International Conference on Alcohol, Drugs and Traffic Safety, October 24-27, 1989, Chicago, Illinois. Ed. M.W. Bud Perrine. Chicago: National Safety Council, 1990. 970p.

**12<sup>th</sup> - 1992 Cologne, GERMANY**

Alcohol, drugs and traffic safety. Proceedings of the 12th International Conference on Alcohol, Drugs and Traffic Safety, 28 September - 2 October, 1992, Cologne, Germany. Ed. H.-D. Utzelmann, G. Berghaus and G. Kroj. Köln: Verl. TÜV Rheinland, 1993. 3 vol. 1602p.

**13<sup>th</sup> - 1995 Adelaide, AUSTRALIA**

Alcohol, drugs and traffic safety. Proceedings of the 13th International Conference on Alcohol, Drugs and Traffic Safety, August 13-18, 1995, Adelaide, Australia. Ed. C.N. Kloeden and A.J. McLean. Adelaide: NHMRC Road Accident Research Unit, 1995. 2 vol. 957p.

**14<sup>th</sup> - 1997 Annecy, FRANCE**

Alcohol, drugs and traffic safety. Proceedings of the 14th International Conference on Alcohol, Drugs and Traffic Safety, September 21-26, 1997, Annecy, France. Ed. C. Mercier-Guyon. CERMT, 1997. 3 vol.

**15<sup>th</sup> - 2000 STOCKHOLM, SWEDEN**

Alcohol, drugs and traffic safety. Proceedings of the 15th International Conference on Alcohol, Drugs and Traffic Safety, May 21-26, 2000, Stockholm, Sweden, Eds. Hans Laurell and Frans Schlyter

**16<sup>th</sup> - 2002 Montréal, CANADA**

Alcohol, drugs and traffic safety. Proceedings of the 16th International Conference on Alcohol, Drugs and Traffic Safety, August 4-9, 2002, Montréal, Canada, Eds. Daniel R. Mayhew and Claude Dussault.

## **17<sup>th</sup> – 2004 Glasgow, SCOTLAND**

The 17th International Conference on Alcohol, Drugs and Traffic Safety (T2004) is scheduled to take place in Glasgow, Scotland, August 7-13, 2004. The venue will be the Scottish Exhibition & Conference Centre on the banks of the River Clyde in the heart of Glasgow.

## **The ICADTS Newsletter**

The ICADTS Reporter is the official newsletter of ICADTS. The newsletter is published quarterly by ICADTS with support from the U.S. National Highway Traffic Safety Administration. This publication is available free of charge by writing to Kathryn Stewart or Barry Sweedler, 3798 Mosswood Drive, Lafayette, CA 94549 USA. Telephone: (925) 962-1810, Fax: (925) 962-1810, Email: [Stewart@pire.org](mailto:Stewart@pire.org) or [sweedlb@hotmail.com](mailto:sweedlb@hotmail.com), Web Site: <http://www.icadts.org>

## **ICADTS Membership**

There are two categories of membership available to colleagues wishing to join ICADTS: Members and Affiliates. Members must possess a demonstrated record of significant accomplishments in any of the relevant disciplines that encompass the field of alcohol, drugs and traffic safety, including program management as well as research. In order to become a member of ICADTS, individuals must be sponsored by two current ICADTS members and approved by a vote of the ICADTS Executive Board. Affiliates include those who have an interest in the field of alcohol, drugs and traffic safety and ICADTS. Affiliates of ICADTS enjoy the privileges of membership, other than voting and participation in its governance. In order to become an affiliate member of ICADTS, individuals must be sponsored by one current ICADTS member and be approved by a vote of the ICADTS Executive Board.

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## **The 2002 Widmark Awards**

The prestigious Widmark Award, and the gold medals that accompany the award, will be presented to former ICADTS President **Dr. A. J. (Jack) McLean**, Director of the Road Accident Research Unit, of the University of Adelaide in Australia and to **Prof. Ralph Hingson**, Associate Dean for Research, at the Boston University School of Public in Boston in the U.S. Both are being honored for their lifelong work to the field of alcohol, drugs and traffic safety. Both Dr. McLean and Prof. Hingson have made significant contributions to scientific knowledge and public policy in their own countries and around the world.

### **Dr. A.J.(Jack) McLean**

Dr. A.J.(Jack) McLean is known internationally for his leadership in traffic safety. Much of his work has always concerned alcohol and traffic safety, although his research extends across the entire field of traffic safety. His work has ranged from on-scene accident investigations through epidemiological research and policy studies and has involved addressing this important problem in many regions around the world, including work to assist underdeveloped countries in addressing the problem. He has served as president of ICADTS as well as in many other positions of leadership in this field. As director of the Road Accident Research Unit at the University of Adelaide he has been instrumental in training young professionals and involving them in this important field.

Dr. McLean's list of publications in the area of highway safety starts almost 40 years ago and contains numerous articles which have had tremendous importance in the field of alcohol, drugs and traffic safety and which have influenced public policy and legislation. Dr. McLean has received a number of awards in recognition of his excellence in the area of highway safety, among which a few will be mentioned here: the Volvo International Traffic Safety Award (1988); the Graeme Grove Medal, Royal Australasian College of Surgeons (1989); Medal of the International Association of Accident and Traffic Medicine (1995).

### **Dr. Ralph Hingson**

Dr. Ralph Hingson has been active in the field of alcohol, drugs and traffic safety for many years. During this time he has been able to create a remarkable track record of research which has had tremendous impact on legislation and public policy. Not only has Dr. Hingson carried out some of the key research on policies and programs to prevent impaired driving, he has also worked as an advocate on important safety issues. Some highlights of his research career include:

- The effects of lowered BAC limits for underage drivers
- The effects of lowered BAC limits for all drivers
- Enforcement of impaired driving laws
- Demonstration of the effects of community-based traffic safety programs
- The effects of alcohol use on non-traffic related injuries, including boating
- The effects of lowered BAC limits for previous impaired driving offenders
- Age of drinking onset and unintentional injury involvement after drinking

- Controlling adolescent access to alcohol

It was in part due to Dr. Hingson’s research that all states in the US now have “zero tolerance” for alcohol among drivers under age 21 and that states are now moving towards lowering illegal BAC levels for all drivers. These policy changes are saving lives and averting tragedies.

Dr. Hingson is the Associate Dean for Research and a Professor in the Social and Behavioral Sciences Department at Boston University, School of Public Health. He is also recipient of numerous honors and awards, including the Mothers Against Drunk Driving Hero Award (1995); the Advocates for Highway safety, Massachusetts Highway Safety Champion Award (1999); the Innovators Combating Substance Abuse Award from the Robert Wood Johnson Foundation (2001).

- **History of the Award**

The Widmark Award was established in 1965 at Indiana University in honor of Professor Erik M. P. Widmark of the University of Lund in western Sweden, whose comprehensive research work during the first half of this century touched on all the aspects of the pharmacology of alcohol. The Award is the highest honor that ICADTS can confer on individuals and organizations who have made outstanding contributions to our basic knowledge of the effects of alcohol and other mood-altering drugs on traffic safety.

- **Previous Widmark Laureates**

1965	Professor R. N. Harger	U.S.A.
1968	Professor Leonard Goldberg	SWEDEN
1974	Professor Robert F. Borkestein	U.S.A.
1977	Dr. Norman McCallum	AUSTRALIA
	Professor Joachim Gerchow	F.R.G.
	Mr. Robert Donigan	U.S.A.
1980	Professor Kurt M. Dubowski,	U.S.A.
	Professor Gottfried Machata	AUSTRIA
1983	Professor Oskar Gruener	F.R.G.
	Dr. Milan R. Valverius	SWEDEN
1986	Dr. John Birrell	AUSTRALIA
	Professor Ulrich Heifer	F.R.G.
1989	Dr. John Havard	U.K.
	Dr. H. Laurence Ross	U.S.A.
1992	Dr. Jarmo Pikkarainen	FINLAND
	Dr. Herbert Simpson	CANADA
	Dr. Hans Klette	SWEDEN
1995	Hans Laurell	SWEDEN
	Dr. Patricia Waller	U.S.A.
1997	Dr. A. W. Jones	SWEDEN
	Dr. Herbert Moskowitz	U.S.A.

2000 Dr. Allan F. Williams  
Dr. Robert B. Voas

U.S.A.  
U.S.A.

## Widmark Institutional Awards

- The National Safety Council, U.S.A.
- The British Medical Association, U.K.
- The Kuratorium für Verkehrssicherheit, AUSTRIA
- The Traffic Injury Research Foundation, CANADA
- The Bund Gegen Alcohol im Strassenverkehr, F.R.G.
- The Insurance Institute for Highway Safety, U.S.A.
- The Northwestern University Traffic Institute, U.S.A.
- The University of North Carolina, Highway Safety Research Center, U.S.A.
- The Vermont Alcohol Research Center, U.S.A.
- The Centre of Behavioural and Forensic Toxicology, ITALY
- The Institute for Human Psychopharmacology, The NETHERLANDS
- Mothers Against Drunk Driving, U.S.A.
- The National Public Services Research Institute, U.S.A.
- Remove Intoxicated Drivers, Inc., U.S.A.

## Haddon Award

In addition, ICADTS will present the new Haddon Award for the first time. This award will be presented to **Prof. Alain Verstraete**, of the Laboratory of Clinical Biology-Toxicology of University Hospital in Ghent, and **Dr. Viviane A. Maes**, Clinical Biologist-Toxicologist at the Academic Hospital of the Free University of Brussels, Belgium. Advocating scientifically based changes to public policy in Belgium, their leadership was instrumental in the establishment of new per se legislation for illicit drugs. They also guided policy-makers to establish a campaign on medicinal drugs and driving.

The two awardees have been working as a team on the same issues and shared the workload. Dr. Maes being a pharmacist and Dr. Verstraete being a physician has allowed them to cover a broad spectrum of issues pertaining to illicit and medicinal drugs to be included in their work. The unique aspect of their approach is that they focused their activities on illicit drugs and medicinal drugs with specific attention knowing that different approaches were needed based on present scientific knowledge and public and political acceptance. They were able to convince the Belgian parliament and the relevant individuals in the Belgian government that prevention was feasible by selecting the least impairing medicinal drugs. This type of effort was first performed in Europe by this Belgian team.

- **History of the Award**

The Haddon Award, established by ICADTS in 1999, recognizes those who have advocated scientifically based changes to public policy which have reduced the adverse effects of alcohol or other drugs on traffic safety. The award is named in honor of Dr. William Haddon, Jr., a physician and epidemiologist, and a pioneer in the highway safety field. As a researcher and administrator, he contributed substantially to the development and application of effective methods to reduce motor vehicle injuries by insisting that the field be based on science.

## **Sponsors of T 2002**

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