

SWOV-reports, publications, contributions and articles  
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## Foreword

In this brochure you will find lists of publications of research carried out by the SWOV Institute for Road Safety Research. Only reports and other publications written in other languages than Dutch are mentioned. The references in this brochure concern 1985 till 1994.

The publications in the chapters 1. and 2. are at request available from the Public Relations Department. All other publications are only available from the original publishers.



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## 1. Reports and consults

Splash and spray by lorries. J.P.M. Tromp. R-85-5. 24 pp.

Effects of road safety measures in urban areas in the Netherlands. Contribution to: Biecheler, M.B.; Lacombe, C. & Mühlrad, N. (ed.). "Evaluation 85", International meeting on the Evaluation of local traffic safety measures, Paris, 20-23 May 1985, Tome 1, pp. 168-183. ONSER, Paris, 1985. S.T.M.C. Janssen. R-85-11. 26 pp.

Contribution to evaluation of intermediate variables; Background paper. Contribution to: Biecheler, M.B.; Lacombe, C. & Mühlrad, N. (ed.). "Evaluation 85", International meeting on the Evaluation of local traffic safety measures, Paris, 20-23 May 1985, Tome 2, pp. 317-323. ONSER, Paris, 1985. S. Oppe. R-85-12. 12 pp.

Subjective evaluation and public participation. Contribution to: Biecheler, M.B.; Lacombe, C. & Mühlrad, N. (ed.). "Evaluation 85", International meeting on the Evaluation of local traffic safety measures, Paris, 20-23 May 1985, Tome 2, pp. 423-427. ONSER, Paris, 1985. J.H. Kraay & S. Oppe. R-85-13. 12 pp.

The application of electronics in traffic risk control. Contribution to CEC/ECMT/COST International seminar Electronics and traffic on major roads; Technical, regulatory and ergonomic aspects, Paris, 4-6 June 1985, Session 3: Assessment, Preprints, pp. 133-145. P.I.J. Wouters. R-85-17. 25 pp.

Advisory speed limits: Should they be expanded or not? Contribution XVth International Study Week Traffic Engineering and Safety: Traffic engineering & the driver, Theme 2: Speed limits and the driver, Venice, 23-28 September 1985. F.C.M. Wegman. R-85-26. 13 pp.

Flächenhafte Verkehrsberuhigung in Holland: Planungskonzept und Ergebnisse der Vorher-Nachher-Untersuchungen in Eindhoven und Rijswijk. Beitrag 3. Kolloquium Forschungsvorhaben "Flächenhafte Verkehrsberuhigung", Dienstag den 1. Oktober 1985, Reichtagsgebäude, Berlin. J.H. Kraay. R-85-29. 32 S.

An international study on the calibration of traffic conflict techniques. Lecture presented at the Technical University, Espoo, Finland, May 14th 1985. J.H. Kraay. R-85-38. 34 pp.

Traffic safety in reconstructed streets. Lecture presented at the Technical University, Espoo, Finland, May 14th 1985. J.H. Kraay. R-85-39. 42 pp.

Reclassification and reconstruction of urban areas in Eindhoven and Rijswijk. Lecture presented at Helsinki University, Helsinki, Finland, May 16th 1985. J.H. Kraay. R-85-40. 52 pp.

Investigation into the effect of the 30 km/hr countermeasure; Organisation and approach. Lecture presented at Helsinki University, Helsinki, Finland, May 16th 1985. J.H. Kraay. R-85-41. 41 pp.

The Trautenfels study; A diagnosis of road safety using the Dutch conflict observation technique DOCTOR. J.H. Kraay (SWOV) & A.R.A. van der Horst (IZF-TNO). R-85-53. 33 pp.

Design method for the lighting of tunnels based on the assessment of the veiling luminance. Contribution to the Fifth European Light Congress V LUX Europa 1985. 9-11 September 1985, Lausanne, Switzerland. Reports to the Conference No. 16. Dr. D.A. Schreuder (SWOV) & H.J.C. Oud (Rijkswaterstaat). R-85-67. 15 pp.

Remedies for defect accidents. Contribution to XXI FISITA Congress. Belgrade, Yugoslavia, 2-6 June 1986. J.P.M. Tromp. R-86-15. 16 pp.

Roundabouts; Some remarks on the safety and the capacity of roundabouts and roundabout priority systems. Contribution to discussions in CCMT/CCSR and CSR meetings on 9-11 September 1986. J. van Minnen. R-86-18. 16 pp.

Linking road accident data to other files; An integrated Road Accident Recordkeeping System. Contribution to: Road Safety, Proceedings of Seminar P held at the 14th PTRC Summer Annual Meeting, University of Sussex, England, from 14-17 July 1986. Volume P 284, pp. 55-86. PTRC Education and Research Services Ltd., London, 1986. S. Harris M.A. R-86-20. 34 pp.

Liaison des données sur les accidents de la route avec d'autres fichiers; Un Système Intégré d'Enregistrement des Accidents de la Route. Etude présentée à la session d'été annuelle du PTRC, Université du Sussex, Grande-Bretagne, 14-18 Juillet 1986. S. Harris. R-86-21. 38 pp.

Woonerfs and other experiments in The Netherlands. J.H. Kraay. R-86-23. 13 pp. Article Built Environment 12 (1986) 1/2 : 20-29.

Safety barriers for motorways; Shoulder and bridge safety barriers and impact attenuators surveyed and assessed. SWOV (C.C. Schoon, T. Heijer, W.H.M. van de Pol & D.J.R. Jordaan). R-86-24. 122 pp.

Developments in road safety research. Closing lecture at the International Seminar 'Recent developments in road safety research', The Hague, 20 November 1986. Prof. E. Asmussen. R-86-28. 13 pp.

The function of road markings in relation to driver's visual needs. Dr. D.A. Schreuder. R-86-29. 103 pp.

Light trespass; Causes, remedies and actions. Paper presented at the CIE/MBE symposium 'Lighting and Signalling for Transport', Budapest, 22-23 September 1986. Dr. D.A. Schreuder. R-86-31. 28 pp.

Proceedings of the International Workshop Recent Developments in Road Safety Research, The Hague, The Netherlands, 19 November 1986. J.H.



Kraay & G.C. Ederveen (eds). (Contributions of: F.C.M. Wegman, S. Oppe, J.H. Kraay, S.T.M.C. Janssen, P. Wesemann, A.G. Welleman, P.H. Polak, C.M. Gundy, T. Heijer, D.A. Schreuder, R. Roszbach a.o.). R-87-3. SWOV, Leidschendam, 1987. 250 pp.

Die Niederländische Konfliktbeobachtungstechnik "DOCTOR". Beitrag 18. Budapester Internationale Wissenschaftliche Beratung für Verkehrsplanung und Verkehrstechnik "Theorie und Praxis des Stadtverkehrssicherheit", Budapest, 7.-9. April 1987. J.H. Kraay. R-87-13. SWOV, Leidschendam, 1987. 8 pp.

Safety in residential areas; The European viewpoint. Presented to the Conference on Road Accidents in Childhood, organised by the Parliamentary Advisory Council for Transport Safety (PACTS), London, Tuesday 3rd November 1987. Joop H. Kraay. R-87-20. SWOV, Leidschendam, 1987. 16 pp.

Ridendo dicere verum (Telling the truth with a smile). Presented at the International Seminar on Road Safety "Europäisches Jahr der Straßenverkehrssicherheit 1986 - Erkenntnisse?" held at the Polizeiführungsakademie, Münster, Federal Republic of Germany, 6-8 October 1987. M.J. Koomstra. R-87-35. SWOV, Leidschendam, 1987. 20 pp.

Daytime running lights: The attention lights; A literature survey of daytime running lights for motor vehicles and their effect on road safety in the Netherlands. Dr. P.H. Polak. R-87-36. SWOV, Leidschendam, 1987. 34 pp.

On the way to integrated road safety programmes. Paper presented to the 3rd PRI World Road Safety Congress, June 11-14, 1988, Montreal, Canada. F. Wegman & S. Oppe. R-88-11. SWOV, Leidschendam, 1988. 18 pp.

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Red-light violations at level crossings; Results of roadside interviews. Contribution to VTI/INRETS Conference "Road Safety in Europe", Gothenburg, Sweden, 12-14 October 1988. R.D. Wittink. R-88-34. SWOV, Leidschendam, 1988. 7 pp.

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Daytime running lights; Consultative document commissioned by the Road Safety Directorate. Dr. D.A. Schreuder. R-88-54. SWOV, Leidschendam, 1988. 56 pp.

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Use of the helmet retention systems in the Netherlands. J.J.W. Huijbers. R-89-18. SWOV, Leidschendam, 1989. 8 pp.

Daytime running lights (DRL); A masterplan for evaluation research (Shortened version). Drs. J.E. Lindeijer. R-89-24. SWOV, Leidschendam, 1989. 21 pp.

Daytime running lights (DRL); A masterplan for an evaluation study in the Netherlands. J.E. Lindeijer. R-89-49. SWOV, Leidschendam, 1989. 48 pp.

The relationship between the level of street lighting and the traffic safety; A preliminary study. Dr. D.A. Schreuder. R-89-55. SWOV, Leidschendam, 1989. 44 pp.

Utilization of security helmets for two-wheeled vehicle riders. J.J.W. Huijbers. R-90-6. SWOV, Leidschendam, 1990. 107 pp.

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After seven years RIMOB in practice; An evaluation of the Dutch impact attenuator RIMOB. C.C. Schoon. R-90-49. SWOV, Leidschendam, 1990. 39 pp.

Auswertung des Anpralldämpfers "RIMOB". C.C. Schoon. R-90-50. SWOV, Leidschendam, 1990. 42 S.

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Effectiveness and cost of car front end design for pedestrian injury prevention and the problem of conflicting requirements; A literature review. L.T.B. van Kampen. R-91-16. SWOV, Leidschendam, 1991. 35 pp.

The use of seat belts and contributing factors; An international comparison. T. Mäkinen (VTI); R.D. Wittink & M.P. Hagenzieker. R-91-30. SWOV, Leidschendam, 1991. 57 blz.

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Is my country safer than others? A comparison of road safety data between different countries. Paper presented to the PIARC XIth World Road Congress, Marrakesh, Morocco, 22-28 September 1991. S. Harris & F.C.M. Wegman. R-91-57. SWOV, Leidschendam, 1991. 16 pp.

Statistical assessment and targets. Contribution to PIARC XIXth World Road Congress, Ad hoc Group IV: Road Safety, Marrakesh, Morocco, 22-28 September 1991. F.C.M. Wegman. R-91-58. SWOV, Leidschendam, 1991. 16 pp.

Strategies to increase the use of restraint systems. Proceedings of a Workshop organized by SWOV and VTT at the VTI-TRB International Conference Traffic Safety on Two Continents, Gothenburg, 18-20 September 1991. M.P. Hagenzieker (Ed.). R-91-60. SWOV, Leidschendam.

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Motorway lighting under fog conditions. Based on a paper presented at Japan Highway Corporation, Tokyo, 12 July 1990. Dr. D.A. Schreuder. R-91-72. SWOV, Leidschendam, 1991. 58 pp.

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The evolution of mobility and road safety; Paper 3rd INSIRT Round Table 'The Future of Mobility', Toulouse, France, 1991 and 6th World Conference on Transport Research, Lyon, France, 1992. M.J. Koomstra. R-92-36. SWOV, Leidschendam, 1992. 52 pp.

New pedestrian facilities; Technique, observations and opinions; The Dutch experiment. Drive project V1061: Pussycats. Dr. P.B.M. Levelt. R-92-55. SWOV, Leidschendam, 1992. 114 pp.

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Automatic enforcement of speed and red light violations; Applications, experiences and developments. Dr. T. Mäkinen (VTT Technical Research Center of Finland) & Oei Hway-liem (SWOV). R-92-58. SWOV, Leidschendam, 1992. 26 blz.

Strategies for improving road safety in the Netherlands: Past and future. Contribution to the 5th World Congress of the International Road Safety

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Experiences with new roundabouts in The Netherlands. Paper presented to the International Seminar 'Giratoires 92', Nantes, 14-16 October 1992. J. van Minnen. D-92-9. SWOV, Leidschendam, 1992. 10 pp.

Research and road safety in Europe. Introduction speech presented at the International Conference 'Road Safety in Europe', Berlin, 30 Sept - 2 Oct 1992. M.J. Koomstra. D-92-10. SWOV, Leidschendam, 1992. 16 pp.

Predictions of road safety in industrialized countries and Eastern Europe; An analysis based on models for time series of fatality rates and motorized vehicle kilometers or amounts of passenger cars. Paper presented at the International Conference "Road Safety in Europe", Berlin, 30 September - 2 October 1992. M.J. Koomstra & S. Oppe. D-92-11. SWOV, Leidschendam, 1992. 22 pp.

Long-term requirements for road safety: Lessons to be learnt. Paper presented at the OECD-Seminar on "Road Technology Transfer and Diffusion for Central and East European Countries", Budapest, 12-14 October 1992. M.J. Koomstra. D-92-12. SWOV, Leidschendam, 1992. 28 pp.

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HID car headlights and road safety; A state of the art report on high-pressure gas-discharge lamps with an examination of the application of UV radiation and polarised light. C.C. Schoon & dr. D.A. Schreuder. R-93-70. SWOV, Leidschendam, 1993. 33 pp.

Guidelines for Retrospective Safety Analysis. Prepared for DRIVE II-Project V2002 Horizontal Project for the Evaluation of Safety (HOPES). S. Oppe (Ed.). R-93-75. SWOV, Leidschendam, 1993. 148 pp.

Improving safety in young drivers: in search of possible solutions; Paper contributed to International Symposium 'Young Drivers', Lisbon, 27-28 May 1993. D.A.M. Twisk. D-93-2. SWOV, Leidschendam, 1993. 7 pp.

Computer simulation and vehicle front optimisation; Paper contributed to 26th International Symposium on Automotive Technology and Automation, Dedicated Conference on Road and Vehicle Safety, Aachen, Germany, 13-17 September 1993. J. van der Sluis. D-93-3. SWOV, Leidschendam, 1993. 8 pp.

Young drivers: Driving behaviour, accidents, and countermeasures; Paper contributed to 193 Plenary Meeting of the Motor Insurance Committee Road Safety and Young Drivers, Madrid, 1/2 July 1993. F.C.M. Wegman & D.A.M. Twisk. D-93-4. SWOV, Leidschendam, 1993. 9 pp.

Lessons to be learnt?; When writing a National Road Safety Plan for Central and East European Countries. F.C.M. Wegman. D-93-6. SWOV, Leidschendam, 1993. 14 pp.

SWOV-VVN visit to Hungary. D-93-8. SWOV, Leidschendam, 1993. 7 pp.

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Sicherer fahren mit Licht am Tag. Vortrag Enquête des Kuratorium für Verkehrssicherheit, Wien, 10 November 1993. J.L. Lindeijer. D-93-13. SWOV, Leidschendam, 1993. 8 S.

Mehr Selbstkontrolle durch Fremdkontrolle?; Beeinflussung des Geschwindigkeitsverhaltens durch präventive Polizeikontrolle. Vortrag für die Verkehrssicherheitswoche 1993, Wien, 12 Oktober 1993. P. Wesemann. D-93-15. SWOV, Leidschendam, 1993. 11 S.

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Future developments of motorized traffic and fatalities in Asia. Revised version of the paper presented at the Conference on Asian Road Safety 1993 (CARS 93), Kuala Lumpur, Malaysia, 25-28th October 1993. M.J. Koomstra. D-93-22. SWOV, Leidschendam, 1993. 17 pp.

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Safety effects of road design standards; A study commissioned by the European Commission DG VII of the situation in the European Union. H.G.J.C.M. Ruyters, M. Slop & F.C.M. Wegman (Eds.) R-94-7. SWOV, Leidschendam, 1994. 72 pp.

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Regionale Unterschiede und Ähnlichkeiten in Meinungen über den Verkehr in der Schweiz; Ein Vergleich der Resultate der SARTRE-Erhebung in drei Regionen der Schweiz und in vier Regionen in Nachbarländern. Dr. Ch. Goldenbeld. R-94-8. SWOV, Leidschendam,

1994. 50 blz.

Differences and similarities between European drivers in opinions about traffic measures; A cross-national study of the results of the SARTRE-survey. Dr. Ch. Goldenbeld. R-94-9. SWOV, Leidschendam, 1994. 68 blz.

Proposal for a point demerit system in Hungary. D.A.M. Twisk & R.D. Wittink. R-94-13. SWOV, Leidschendam, 1994. 39 blz.

Young driver accidents in Europe; Characteristic young driver accidents in the member states of the EU. D.A.M. Twisk. R-94-18. SWOV, Leidschendam, 1994. 39 pp.

Road Safety Impact Assessment: RIA; A proposal for tools and procedures for a RIA. A study commissioned by the European Commission DG VII. F.C.M. Wegman; R. Roszbach; J.A.G. Mulder; C.C. Schoon & F. Poppe. R-94-20. SWOV, Leidschendam, 1994. 37 pp.

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Cost-benefit study concerning car front impact requirements to increase the crash-safety of pedestrians and cyclists; Final report. L.T.B. van Kampen. R-94-31. SWOV, Leidschendam, 1994. 37 pp.

Control strategies for a highway network; A joint research project of SWOV, the Technical University Delft and the Institute for Perception TNO sponsored by the Dutch Ministry of Transport and Watermanagement. Part I,II and III. R-94-34 I+II+III. SWOV, Leidschendam, 1994. 75 + 63 + 57 pp.

Incident Warning Systems: Accident Review. SWOV-contribution to the HOPES Annual report 1994 concerning WP 31.2. Prepared for DRIVE II Project V2002 Horizontal Project for the Evaluation of Safety (HOPES). S. Oppe; J.E. Lindeijer & P. Barjonet (INRETS). R-94-50. SWOV, Leidschendam, 1994. 29 pp.

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Point processes in traffic safety analysis. F. Bijleveld. R-94-51. SWOV, Leidschendam, 1994. 62 pp.

Regranting of driving licence; A literature search. P.C. Noordzij. D-94-3. SWOV, Leidschendam, 1994. 30 pp.

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