



Politecnico di Milano  
**DIPARTIMENTO DI INGEGNERIA CIVILE ED AMBIENTALE**  
**DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING**  
Piazza Leonardo da Vinci 32 – 20133 MILANO

SEZIONE DI INFRASTRUTTURE DI TRASPORTO E GEOSCIENZE  
SECTION OF TRANSPORTATION INFRASTRUCTURES AND GEOSCIENCE

Prof. Maurizio Crispino

Milano, Marzo 2015

## PROF. MAURIZIO CRISPINO SYNTHETIC ACADEMIC PROFILE

Maurizio Crispino is Full Professor of Roads, Railways and Airports at the National Technical University of Milan (Politecnico di Milano) (Italy).

He got a MSc in Civil Engineering in Transport Infrastructures and a Ph.D in Transport Engineering and won numerous grants to study both abroad and in Italy.

His specialist studies and research topics of interest concern design, construction and maintenance of road, railways and airport infrastructures.

He is Chair or Member of different national and international Committees and Working Groups.

From 2001 to 2013 he was Director of the Road Research Laboratory of Polytechnic of Milan. In this role he has coordinated control activities in very important and challenging projects. Now He serves as Scientific Coordinator of such Laboratory.

Up to 2013 he has been Co-ordinator of the Section of Transportation Infrastructures And Geoscience, of the Department of Civil and Environmental Engineering of the National Technical University of Milano (Politecnico di Milano).

Prof. Crispino has two classes at the National Technical University of Milan (Politecnico di Milano):

- “Road Design”, Degree in Civil Engineering,
- “Road and Airport Pavements” at Master Science Degree in Civil Engineering.

He was invited as visiting professor in other Universities (such as Monterrey Tech - Mexico).

He was and is still leader of many research projects concerning transport infrastructures (innovative materials and pavements, maintenance and rehabilitation techniques, design methods, new technologies for monitoring roads, etc) specifically in airports as well as in roads and highways.

He has published around 120 papers, at international conferences and journals, concerning innovative materials, construction, design, maintenance and rehabilitation of transport infrastructures. He is co-inventor of 7 patents concerning innovative materials for pavement.

Memberships to Working groups and Committees

- Since 2011 **Chair** of “Standards for Road Construction and Civil Infrastructures” Committee U71 - UNI
- Since November 2008 **Chair** of the Road Materials Subcommittee U7102 UNI



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- Since 2011 **Chair** of Risk Assessment Committee RC 1.5 of the World Road Association and member of the mirror International Committee
- 2008-2011 **Chair** of the National Committee and member of the International Committee TCA.4 "Rural Roads System and Accessibility" PIARC (Permanent International Association of Road Congress)
- Since 2010 Member of Transportation Research Board (Washington DC) AFD10 "Pavement Management"
- Since 2010 Member of Transportation Research Board (Washington DC) AFD10 "Airport Pavement Management System"
- Since 2010 Member of Transportation Research Board (Washington DC) AV70 "Airfield/airport"
- Since 2010 Member of Transportation Research Board (Washington DC) Subcommittee AF000(2) "Pavement Materials and the Urban Climate"
- 2008-2011 Member of the Technical Committee TCA.4 "Rural Roads" PIARC (Permanent International Association of Road Congress)
- 2008-2011 Member of Technical Committee D.1 "Management of Road Infrastructure Assets"
- 2008-2011 Member of Technical Committee D.2b "Flexible and Semi-rigid Pavements"
- 2008-2011 Member of Technical Committee D.2a "Road Surface Characteristics"
- Since 2001-2004, he was member of the French Committee CERTU "Revêtements des plates-formes tramway"
- 1996-2003 Member of the Italian National Committee "Surface Characteristics" AIPCR - PIARC (Permanent International Association of Road Congress)
- Since 2001 member of the InterUniversity Center of Research for Studies on Road Safety
- 1996-99 Associate Member of the International "Technical Committee" C1 "Surface Characteristics" AIPCR - PIARC (Permanent International Association of Road Congress)
- 2000-03 Associate Member of the International "Technical Committee" C1 "Surface Characteristics" AIPCR - PIARC (Permanent International Association of Road Congress)
- Member of the "Experts Groups – Trasports Area" of the Progetto Finalizzato Trasporti 2 - CNR for the Coordination of the National Politics for the 5th Framework Programme
- 2004-2007 VicePresident of the National Technical Committee C.4.2. Interaction Vehicle-Road AIPCR - PIARC (Permanent International Association of Road Congress)
- Member of the Working Group "Railway Transport" for the preparation of the Italian Proposal for the 5th Framework Programme of the European Community
- Member of the Working Group: Improving Road safety for roads and Motorways; Progetto Finalizzato Trasporti 2, Febbraio 1998
- Member of the Scientific Board of the Conference "Environmental impact of road pavement unevenness" held in Porto (Portugal) in 1999
- Member of the Ministerial Committee for Railway Accidents, 2005
- Co-ordinator of the Working Group WGA of the National Committee AIPCR TC 4.2. Interaction Vehicle-Road.



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Prof. Maurizio Crispino has cooperated at many important projects (airport pavements, asset management of road networks, new roads and airports pavement design, rehabilitation of existing roads and airports pavements, etc.).

Prof. Eng. Maurizio Crispino's internationally recognized knowledge and experience concern design, construction and maintenance of airports, roads and railways. Topics of his interest are:

- Sustainability (natural resources involved, carbon footprint, energy embedded);
- Maintenance and rehabilitation of airport and road networks;
- Analysis of budget scenarios;
- Risk Assessment;
- Structural Adequacy;
- Functional characteristics (friction, noise, vibrations, etc.);
- Performances and durability;
- Construction and Maintenance Costs;
- Life Cycle Analysis;
- Productivity;
- Material appropriate selection related to site characteristics and availabilities;
- Construction techniques and optimization;
- Innovative materials and technologies for infrastructures.