

## SEMINARI DE SEGURETAT VIÀRIA:

### “Roadway Safety Management: Concepts and tools”

23 JUNY 2011

#### LLOC:

Escola Tècnica Superior d'Enginyers de Camins,  
Canals i Ports de Barcelona  
C/ Jordi Girona 1-3, Edifici B1, aula 001  
08034 Barcelona

#### HORARI:

23 de juny de 2011 de 10.00 a 12.00 hores.

#### INSCRIPCIÓ:

Gratuïta mitjançant web.

Places limitades.

[www.cenit.cat](http://www.cenit.cat)



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#### INFORMACIÓ I INSCRIPCIONS

Inscripcions gratuïtes en la pàgina web del CENIT  
([www.cenit.cat](http://www.cenit.cat)).

Curs impartit en anglès. Es distribuirà material sobre el  
contingut del curs en anglès.

Cal inscriure's a la pàgina web.

Organitza:



Col·laboren:



càtedra **abertiç**



Escola Tècnica Superior d'Enginyers  
de Camins, Canals i Ports de Barcelona  
UNIVERSITAT POLITÈCNICA DE CATALUNYA



23 de juny de 2011

Seminari de Seguretat Viària:

### Roadway Safety Management: Concepts and tools

**Prof. Andrew P. Tarko**

Director of the Center for Road Safety  
Purdue University, USA

## SEMINARI DE SEGURETAT VIÀRIA:

### “ROADWAY SAFETY MANAGEMENT: CONCEPTS AND TOOLS”

23 de juny de 2011

This two-hour seminar presents the theoretical basis of safety analyses and their applications to identify safety needs in road networks, to conduct road site investigations, to select cost-effective countermeasures, and to compare planning alternatives from the safety perspective.

A critical review of the available data and methods is meant to increase awareness of their limitations and to promote the intended use of the methods and the correct interpretation of the results. The computer applications presented during the seminar are: SNIP, RoadHAT, and RSIT2. They have been developed by the Center for Road Safety, Purdue University, and are currently used or being implemented in the Indiana road safety management.

The seminar instructor is the renowned Professor Andrew P. Tarko from Purdue University, and Director of the Center for Road Safety.

#### Francesc Robusté

Catedràtic de Transport, UPC  
Director del CENIT



## Prof. ANDREW P. TARKO



Professor at the School of Civil Engineering, Purdue University, and a Director of the Center for Road Safety at Purdue University, West Lafayette, Indiana, USA. He is an expert in the areas of transportation engineering, statistical modeling of safety, and methods of safety management.

Dr. Tarko teaches transportation engineering, highway design, road safety management courses; he advised nearly forty graduate students and taught a large number of short courses and seminars for transportation professionals. He is a present or previous member of the Institute of Transportation Engineers and the American Society of Civil Engineers.

Dr. Tarko is actively involved in the Transportation Research Board Committees on Transportation Safety Management and on Safety Data, Evaluation, and Analysis. He chairs the TRB Subcommittee on Surrogate Measures of Safety. Dr. Tarko is a member of the Editorial Boards for the Accident Analysis and Prevention and the Transportation Safety and Security, and he is a former Associate Editor of the Transportation Science.

Dr. Tarko has published numerous journal papers in prestigious journals including Transportation Science, Accident Analysis and Prevention, Safety Science, ASCE Journal of Transportation Engineering, and TRB Journal: Transportation Records. He has led research in more than forty research grants funded by the Federal Highway Administration, National Highway and Traffic Safety Administration, Indiana Department of Transportation, Indiana Criminal Justice Institute, and Indiana State Police. Dr. Tarko is an author of four safety management computer tools: Planning Analysis of Safety Software (PASS), Road Hazard Analysis Tool (RoadHAT), Road Safety Investigation Tool (RSIT2), and Safety Needs Identification Package (SNIP).

## PROGRAMA

23 de juny de 2011

10:00 h Inauguració  
Francesc Robusté – Catedràtic de Transport de la UPC i Director del CENIT.

10:15 h Prof. Andrew P. Tarko

1. Safety measures
  - a. Direct – crashes
  - b. Indirect - surrogates
2. Safety Performance Functions vs. crash counts
3. Crash Reduction/Modification Factors
4. Screening road networks (SNIP)
  - a. Concepts
  - b. Tool
5. Screening under limited exposure data
6. Safety audits of existing roads (RoadHAT, RSIT2)
  - a. Concepts
  - b. Tool
7. Economic evaluation of safety programs (RoadHAT)
  - a. Concepts
  - b. Tool
8. Concept of SNIP2 for planning safety interventions
9. Closure

11:55 h Cloenda  
Ole Thorson, President P(A)T

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#### Documentació:

Es penjaran de la pàgina web del CENIT diversos articles del Prof. Andrew Tarko relacionats amb la temàtica del curs.