

## Clermont-Ferrand Summer School 2009 The City of the Future

### Cooperative systems – concept, benefits and deployment of “talking” cars and roadside infrastructure

10-11 September 2009

#### Cooperative systems: “talking” cars and roadside infrastructure

Cooperative vehicle-infrastructure systems provide exciting technology to allow cars to communicate with one another and with roadside infrastructure. The benefits of cooperative systems for cities are clear, with promises to substantially **increase road safety and efficiency**, and to **reduce the environmental impact of road transport**.

One example of such cooperative applications is the dynamic routing of drivers: a vehicle can communicate with roadside infrastructure to find out about any “event” on the road such as congestion, pollution, weather conditions or in the city (e.g. a football match), which may have an impact on its journey, so that an optimal route from origin to destination can be calculated. Another example with a safety application is: at urban intersections – in order to reduce the likelihood of collision – a warning for left turns can be given to the driver if there are vehicles approaching.

Many existing traffic management and road safety services will be supplemented one day by cooperative systems: the future is cooperative!

#### The summer school

The two-day summer school aims at providing participants with a solid grounding in the basic concepts and current research & development related to cooperative systems as well as introducing the potential of this technology to address transport challenges at urban, regional and national levels.

The summer school on cooperative systems is organised by Polis – a European network of cities and regions for transport solutions – within the framework of the European research project **CVIS** (Cooperative Vehicle Infrastructure Systems – [www.cvisproject.org](http://www.cvisproject.org)), co-ordinated by ERTICO – ITS Europe.

The two-day programme is part of the longer summer school entitled **‘The city of the future’** which is organised by the universities, high schools and public transport provider of Clermont-Ferrand.

## Who should join?

Young transport engineers from all over Europe – students and graduates – are invited to join the interactive programme prepared by the CVIS project partners.

If you are interested in tools for planning the transport of tomorrow, join us in Clermont-Ferrand!

## The programme – be inspired!

The programme is organised around plenary and working group sessions. In the plenary sessions, we will provide information about the concepts, benefits and possible uses of cooperative systems. In the working groups, **you will work on developing potential applications to make road transport greener, safer and more comfortable**. We think that by doing it yourself, you will have the best opportunity to develop a sound understanding of what cooperative systems are about. But we won't leave you completely alone: experienced partners from the CVIS project will be on hand to guide you through the working groups.

As well as discussions about cooperative systems, there will also be demonstrations, including mini-trucks and short films.



## Preliminary programme – Thursday, 10 September 2009

**Chair: Sylvain Haon, Polis**

- 09.30 Opening and welcome
- 09.45 ITS and cooperative systems – what are we talking about?  
Introduction to cooperative systems (what is it, what does it promise, status of research and demonstration)  
**Speaker: Paul Kompfner, CVIS Co-ordinator, ERTICO – ITS Europe**
- 10.30 Cooperative systems and transport policies – making the case for cooperative systems
- Cooperative systems potential for supporting local, regional, and national transport policies
  - Stakeholders' views on cooperative systems (rough overview) (or later in the programme)
- Speaker: World Road Association – PIARC (invited)**
- 11.45 Demonstration of selected CVIS use cases and applications  
**Speaker: Jaap Vreeswijk, PEEK**

12.30 Lunch break

**Chair: Melanie Kloth, Polis**

- 14.00 Definition of user needs and development of use cases  
**Working groups supported by CVIS partners (Logica, PEEK, PTV, Volvo)**  
The working group sessions will be organised in 4 working groups focusing on different user needs:
- 1) (Highway) Road authorities / traffic control centre
  - 2) Urban traffic controller
  - 3) Driver
  - 4) Fleet owner
- 15.30 How do we make it happen? - from use cases to system requirements and applications  
**Speaker: Jaap Vreeswijk, PEEK**
- 16.00 Architecture and system specifications in CVIS  
**Speaker: Peter Christ, ERTICO – ITS Europe**
- 16.30 From the devised use cases to system requirements and applications  
**Working groups**
- 17.30 End of day 1

## Preliminary programme – Friday, 11 September 2009

**Chair: Melanie Kloth, Polis**

09.30 How to bring cooperative systems on the road – key actions and challenges for the deployment of cooperative systems

**Speaker: Lina Konstantinopoulou, ERTICO – ITS Europe**

10.00 Deployment of the chosen application – how to make it happen

- definition of most important stakeholders for deployment
- main arguments for deployment
- questions of roll-out, financing, liability

**Working groups**

11.00 Selling it! Presentation of the working groups: applications, benefits for stakeholders, commercial case / public case, etc.

**Plenary**

11.45 Cooperative systems in Grand-Lyon – expectations and experiences

**Speaker: Representative from Grand-Lyon (invited)**

12.30 Lunch break

**Chair: Sylvain Haon, Polis**

14.00 Cooperative systems for cyclists

**Speaker: Pierre-Damien Berger, CEA LETI MINATEC**

14.45 Final discussion: role play with participants on benefits of cooperative systems for local authorities

**Moderator: Sylvain Haon, Polis**

16.00 Demonstration of selected CVIS use cases and applications (Part 2)

**Speaker: Jaap Vreeswijk, PEEK**

17.00 Summary and closing



## Practical information

The summer school takes place in the grounds of the University of Clermont-Ferrand situated in Clermont-Ferrand, France. The town is located in the Massif Central and surrounded by a chain of volcanoes – the Chaîne des Puys.

For the plenary sessions, simultaneous translation French to English and English to French will be provided. The working groups will work in either English or French.

Participation in the summer school is free of charge. For a limited number of participants, funding is available to cover costs for accommodation and meals.

Eligibility for funding is reserved for those who cannot receive funding from another source (such as their company).

If you don't need this funding, you can simply register by sending the registration form (see last page). **Deadline for registration is 26 August 2009.**

If you want to apply for funding, please indicate this on your registration form and attach a copy of your CV and a short letter of application. **Deadline for application for funding is 10 August 2009.** We will confirm your request for funding by 14 August 2009.

You will receive further details about the venue and more after your registration has been confirmed.

## How to reach Clermont-Ferrand

**By air:** the airport of Clermont-Ferrand Auvergne is connected to a dozen French and international destinations. All information can be found at [www.clermont-aeroport.com](http://www.clermont-aeroport.com)

**By train:** centrally located on the map of France, Clermont-Ferrand is a couple of hours away from Paris; check out the itinerary from your departure point at [www.voyages-sncf.com](http://www.voyages-sncf.com)



## Contact and information

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CVIS Co-ordinator: **Paul Kompfner**, ERTICO – ITS EUROPE ([cvis@mail.ertico.com](mailto:cvis@mail.ertico.com))

[www.cvisproject.org](http://www.cvisproject.org)

# Registration form

## Cooperative systems two-day summer school Clermont-Ferrand 10/11 September 2009

PLEASE RETURN THIS REGISTRATION FORM BY

26/08/09 (For registration only)

10/08/09 (For registration and funding request)

TO

[mkloth@polis-online.org](mailto:mkloth@polis-online.org), fax: +32 2 500 5680

- I would like to attend the Cooperative systems two-day summer school on 10/11 September 2009. (please tick box if you would like to attend)
- I would like to apply for funding. (please tick box if you require funding)  
*Eligibility for funding is reserved for those who can not receive funding from another source (such as their company).*

### If you are applying for funding:

I have included:

- My CV
- A short letter of application for funding

Title:	First name:	
Last name:		
Degree:		
University and faculty or company:		
Street:	NR:	
City:	Postal code:	
Country:		
E-mail:	Phone:	