

## WORKSHOP

# NEW INDUSTRIALISED CONSTRUCTION PROCESS FOR TRANSPORT INFRASTRUCTURES BASED ON POLYMER COMPOSITE COMPONENTS

### Organized within the EU funded project: Trans-IND


The overall objective of the project is to develop a cost-effective integrated construction process that will enable the maximum capability of industrialisation of components for transport infrastructures (road and pedestrian bridges, acoustic and safety barriers) using polymer based materials (carbon fibre, glass fibre, etc.). Trans-IND covers the whole range of activities from gathering customer needs and requirements to specification for modular design (taking into account the whole life cycle) of the transport infrastructure components, off-site components manufacturing, logistics, transport and on-site assembly together with the ICT tools needed to manage and handle the whole process.

### Purpose of the Workshop:


The workshop purpose is presentation of the project, dissemination of knowledge gained through research on FRP and preliminary project results. It is dedicated to engineers, researchers and PhD students. The objective is to present the use of new material in the construction sector and to discuss new findings and future trends in this important industrial application.


Location	Time
City hotel Ljubljana Dalmatinova ulica 15 1000 Ljubljana	14-December-2012 9:30 – 13:50



9:30 – 9:40 Welcome ( dr. S. Gostič  )


9:40 – 9:55 Welcome of Head of Chair of testing in materials and structures ( prof. dr. R. Žarnić  )

9:55 – 10:20 Trans-IND: "New industrialised construction process for transport infrastructures based on polymer composite components" - general presentation of the FP7 project (P. Poneta  )

10:20– 10:45 New innovative production processes for structural elements in composite materials for transport infrastructures (A. Bansal  )

*Matrix*  
*Fiber*  
*Micromechanics*


10:45 – 11:05 Coffee break (Lamina *Macromechanics*)

11:05 – 11:30 Manufacturing of the beam with filament winding (S.Capeska  )

*Laminate*

11:30 – 11:55 Design of FRP structures (D. Antolinc  )

*Structural analysis*

11:55 – 12:20 Non-Destructive Techniques for Complex Composite Components (G. Pandarese  )

12:20 – 12:40 Coffee break

12:40 – 13:05 Pre-normative research (M. Jarc Simonič  )

13:05 – 13:30 Testing of FRP joints (dr S. Gostič  )

13:30 – 13:50 Discussion and Conclusion