

VENTILATION AND FIRE SAFETY IN TRANSPORT TUNNELS
TALLERES ZITRÓN, GIJÓN

Wednesday 24th April 2013

10:00 – 10:10 Ceremonial Opening of the Conference conducted by Managing Director
Mr. Antonio Fernandez-Escandon Ortiz
10:10 – 10:20 Speech of the Professor Stanisław Nawrat – AGH UST
10:20 – 10:30 Speech of the Jacek Sobczak - Tunnel Security Officer - General
Directorate for National Roads and Motorways

Lecture part:

10:30 – 10:40 Optimization of fan's aerodynamic design using specialized Software
(NUMECA)- S. Rodriguez -ZITRON
10:40 – 10:50 Fan's start up and site test- I. Velasco - ZITRON
10:50 – 11:00 Designing good ventilation systems. Fan system effect - M. Alcalde -
ZITRON
11:00 – 11:10 Design of Ventilation System of the triple tunnel under the airstrip of
Madrid airport using CFD and its validation. - A. B. Amado - ZITRON

11:10 – 11:40 Coffee break

11:40 – 11:50 Air flow control for tunnel excavation through rock mass with methane
emissions - R. Rodriguez (Mining Engineer. University Oviedo)
11:50 – 12:00 Exposure to air pollution during construction and exploitation of road
tunnels - J. Madera (Mining Engineer. Head of Technical Department National Silicosis
Institute)
12:00 – 12:10 Situation and prospects for communication tunnels in Poland – N.
Schmidt
12:10 – 12:20 Ventilation systems for transportation tunnels in the phase of
construction – S. Nawrat
12:20 – 12:30 Computer modeling of a fire hazard in transportation tunnels in the
phase of construction – N. Schmidt
12:30 – 12:40 Computer modeling of the evacuation of transportation tunnels in the
phase of construction – S. Napieraj
12:40 – 12:50 The application of the Ventgraph program for simulation fire hazard in
two – tube tunnel with transversal ventilation system – P. Kamiński
12:50 – 13:00 Computer modeling of a fire hazard and evacuation of transportation
tunnels with transversal ventilation system – S. Napieraj
13:00 – 14:30 visiting Zitron company, visiting Zitron's Test Bench.