

TESLA'S WONDERFUL WORLD OF ELECTRICITY - EXHIBITION

DATE & TIME:

August 28 – September 02, 2009

LOCATION:

Faculty of Electronic Engineering, Niš, Serbia



The **Nikola Tesla Museum** is a unique scientific and cultural institution in the world. It is dedicated entirely to the ingenious inventor, scientist and engineer Nikola Tesla (1856-1943), who provided mankind with a large number of significant discoveries and inventions. His induction motor, poly-phase alternate currents, high frequency current and voltage generator, system of electrical energy production and distribution, radio, coreless transformer – known today as Tesla's transformer, high frequency oscillator, speed meters, turbines, bladeless pumps, and many other inventions in the field of electro technology, machine engineering, radio technology, and wireless control, through the ingenuity of their solutions, universality of application, and breakthroughs in many fields of technology and science, have changed the world around us.

LECTURE ON NIKOLA TESLA

DATE & TIME:

Monday, August 31, 2009, 10³⁰h-11⁰⁰h

August 31 – September 02, 2009
Faculty of Electronic Engineering, Niš, Serbia

LOCATION:

Faculty of Electronic Engineering, Niš, Serbia

Life and work of Nikola Tesla will be the subject of the presentation of the Museum Director, **Mr. Vladimir Jelenković**.

IMPLEMENTATION OF INFORMATION TECHNOLOGIES AT THE NIKOLA TESLA MUSEUM – PROJECT PRESENTATION

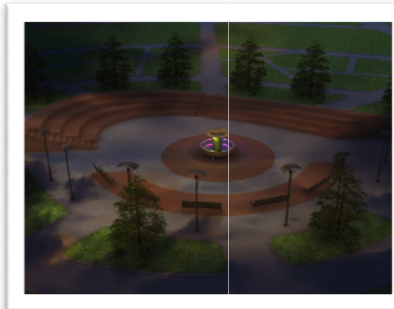
DATE & TIME:

Monday, August 31th, 2009, 11⁰⁰h-11³⁰h

LOCATION:

Faculty of Electronic Engineering, Niš, Serbia

The main goal of the project "**Computer Simulation and 3-D Modeling of the Original Patents of Nikola Tesla**" that is applied to the Republic of Serbia's Ministry of Technology and Science by the Museum of Nikola Tesla of Belgrade and the Faculty of Electronic Engineering of Niš is digitalization and converting of the most interesting and important patents of Nikola Tesla to the digital domain.



The main plan of the technological project is to develop models covering 4 main areas of Tesla's work: Tesla's fountain (that integrates machine technology, induction motor, light technology,

the physics of fluids), Tesla's electromagnetic motors and rotating field invention, Radio technique and wireless propagation of signals and energy (also with Tesla's coil as the basic invention) and the Tesla's vehicle (ship-robot).

Project leader: **Dr. Vladan Vučković**.

COMSOL MULTIPHYSICS MODELING AND SIMULATION - PRESENTATION

DATE & TIME:

Monday, August 31, 2009, 13³⁰h-14³⁰h

LOCATION:

Faculty of Electronic Engineering, Niš, Serbia

The analysis in engineering design does not end with the computation of voltages, stresses, and velocity fields. Frequently, we have to perform extensive post processing on the computed output in order to arrive at useful engineering parameters like impedance, efficiency, conversion factors, rotation angles etc.

To address these tasks **COMSOL Multiphysics** offers a complete modeling environment that allows you to perform all the steps in the modeling process. COMSOL Multiphysics' graphical user interface handles CAD modeling, import of drawings and images, physics and equation definition, mesh generation, equation solving, visualization, and postprocessing.

