

**CENTRAL INSTITUTE FOR CONSERVATION
ЦЕНТРАЛНИ ИНСТИТУТ ЗА КОНЗЕРВАЦИЈУ**

**SOCIETY FOR ETHICS AND EVALUATION OF CULTURE IN SCIENCE
DRUŠTVO ZA ETIČNOST I VREDNOVANJE KULTURE U NAUCI**

SCIENTIFIC MEETING WITH INTERNATIONAL PARTICIPATION

NAUČNI SKUP SA MEĐUNARODNIM UČEŠĆEM

**CONTEMPORARY SUPPORT OF TECHNOLOGICAL SCIENCES IN
CULTURAL HERITAGE PRESERVATION AND ETHICAL ASPECTS /**

**SAVREMENA PODRŠKA TEHNIČKO-TEHNOLOŠKIH NAUKA U
OČUVANJU KULTURNE BAŠTINE I ETIČKI ASPEKTI**

**BOOK OF ABSTRACTS, SELECTED PAPERS AND POSTERS FROM THE
CONFERENCE**

**KNJIGA APSTRAKATA, IZABRANIH RADOVA I POSTERA SA
KONFERENCIJE**

Saturday, November 5th, 2016, BELGRADE

Subota, 5. novembar 2016, BEOGRAD

Belgrade, 2017. / Beograd, 2017.

Publisher: CENTRAL INSTITUTE FOR CONSERVATION

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Print: SLUŽBENI GLASNIK, Beograd
ISBN 978-86-6179-058-4

*Production of this publication was funded with resources of Ministry of culture and information of Republic of Serbia.
Scientific conference was realised within the project TR34028 thanks to Ministry of education, science and technological development.*

Izdavač: CENTRALNI INSTITUT ZA KONZERVACIJU

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Naslovna strana: Manja Pavkov
Štampa: SLUŽBENI GLASNIK, Beograd
ISBN 978-86-6179-058-4

Objavljivanje ove publikacije omogućeno je sredstvima Ministarstva kulture i informisanja Republike Srbije.

Naučna konferencija je realizovana u okviru projekta TR34028 zahvaljujući Ministarstvu prosvete, nauke i tehnološkog razvoja.

PROGRAM

OPENING	
13:00 h	<p>WELCOME SPEECH</p> <p>Dr Radomir Glavički President of the Control Committee of the Society for Ethics and Evaluation of Culture in Science President of the Technical Committee</p>
13:15 h	<p>INTRODUCTORY SPEECH</p> <p>Prof. Milesa Srećković President of the Scientific Committee</p>
INVITED LECTURES	
13:30 h	<p>Stanko Ostojić Faculty of Technology and Metallurgy, University of Belgrade Contemporary Approach of the Physics and Cultural Heritage Preservation</p>
14:00 h	<p>Suzana Polić Central Institute for Conservation, Terazije 26, 11000 Belgrade Philosophy of Technology in Preservation of Cultural Heritage and Ethical Aspects</p>
14:30 h	PAUSE
SECTION 1	
14:45 – 16:55	
1.1.	<p>Marija Hribšek Faculty of Electrical Engineering, University of Belgrade, Bulevar Kralja Aleksandra 73, 11000 Belgrade The role of electronics and SAW sensors in preservation of cultural heritage</p>
1.2	<p>Zoran Karastojković, Radiša Perić, Milesa Srećković, Suzana Polić High Technical School of Professional Studies, Bulevar Zorana Đinđića 152a, 11070 Belgrade „Perić&Perić” d.o.o., Dunavska 114-116, 14000 Požarevac, Faculty of Electrical Engineering, University of Belgrade, Bulevar Kralja Aleksandra 73, 11000 Belgrade, Central Institute for Conservation, Terazije 26, 11000 Belgrade Difusion Welding of Golden Jewelry from Ancient Times up Today</p>
1.3	<p>Ljubinko Janjušević, Suzana Polić Goša Institute, Belgrade, Serbia Central Institute for Conservation, Belgrade, Serbia</p>

	The significance of Mihailo Petrovic Alas for further technical and technological developments
1.4	Višeslava Rajković Institute of Science Vinča, Belgrade The importance of microscopic examination for the restoration and conservation of the cultural heritage
1.5	Biljana Đokić Milošević, Julijana Mirčevski Faculty of Electrical Engineering, University of Belgrade Management of Digitalized Document in Past and Present
1.6	Biljana Đokić, Jevrem Niković Faculty of Electrical Engineering University of Belgrade, Kontrolmatik doo, Belgrade Electrical Instalation and Automatisation in Reconstruction of Museum's Objects
1.7.	Veljko Zarubica Analysis d.o.o , Belgrade Selected problems in materials diagnostic of interest for cultural heritage
1.8	Aleksandar Čučaković, Magdalena Dragović Faculty of Civil Engineering, University of Belgrade The Role of Descriptive Geometry in Contemporary 3D Modeling of Cultural Heritage Objects
1.9	Živojin Petrović, Predrag Petrović, Vuk Velisavljev Technical School, Zrenjanin, Institute Kirilo Savić, Belgrade Faculty of Mechanical Engineering, University of Belgrade Role of Control of Gases in Preventive Conservation. Exhaust Emission Control of Internal Combustion Engines
1.10	Stanko Ostojic Faculty of Technology and Metallurgy, University of Belgrade, Karnegijeva 4, 11000, Belgrade, Serbia Problems in Fitting Processes of Experimental Data in Cultural Heritage
1.11	Milena Davidović University of Belgrade, Faculty of Civil Engineering Numerical modeling of laser beam interaction with material during conservation of cultural heritage
1.12	Milovan Janićijević Metalac d.o.o., Gornji Milanovac Modeling of interaction of laser beams by thermal approach in COMSOL and other program packages
1.13.	Milesa Srećković, Rajko Šašić, Svetlana Pelemiš, Slobodan Bojanić, Suzana Polić Faculty of Electrical Engineering, Belgrade, Faculty of Technology and Metallurgy, Belgrade,

	Faculty of Technology, Zvornik, Universidad de Madride, CIK, Belgrade Role of Quantum Generators in Systems of Interest for Cultural Heritage in Linear and Nonlinear Regimes
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2.2.	Zoran Latinović, Faculty of Electrical Engineering, Belgrade, Bul.Kralja Aleksandra 73, Belgrade Contemporary Laser Types of Interest for the Preservation of Cultural Heritage
2.3	Aleksander Kovačević, Institute of Physics, University of Belgrade The role of informatics and neural nets in cultural heritage preservation
2.4	Željka Tomić, Milena Davidović, Veljko Zarubica, Milovan Janićijević, Danica Mamula Tartalja Belgrade Tehnikum Taurunum, High Technical School, Belgrade-Zemun; Faculty of Civil Engineering, Belgrade; Analysis, Belgrade; Metalac, Gornji Milanovac; High ICT School, Belgrade Tehnikum Taurunum, High Technical School, Belgrade-Zemun Applications of coherent light scattering in diagnosis of materials and objects of cultural heritage through history
2.5	Branka Kaluđerović, Mileša Srećković, Zoran Fidanovski Institute of Nuclear Science Vinča, Faculty of Electrical Engineering, University of Belgrade RAF, University Union, Belgrade Textile materials and interaction with laser beams of interest for cultural heritage
2.6	Slađana Pantelić and Branka Radojičić, Faculty of Electrical Engineering, Belgrade Systems of Video Control in Function of Cultural Heritage
2.7	Branka Radojičić and Slađana Pantelić Faculty of Electrical Engineering, Belgrade Alarm sensors in the functions of preservation of cultural heritage
2.8	Sanja Jevtić CIP, Belgrade

	Lidar methods in cultural heritage preservation
2.9	Zoran Fidanovski RAF, University Union, Belgrade Experimental methods with laser application in evaluation of materials of cultural heritage and choice of optimal theory for data interpretation
2.10	Anđelka Milosavljević, Sanja Petronić, Suzana Polić, Mileša Srećković Faculty of Mechanical Engineering, University of Belgrade Innovation Center Faculty of Mechanical Engineering, University of Belgrade Central Institute for Conservation, Belgrade Faculty of Electrical Engineering, University of Belgrade Pressure vessels at the George W. Weifert Museum
2.11	Mileša Srećković, Željka Tomić, Stanko Ostojić, Suzana Polić, Zoran Fidanovski, Sanja Jevtić, Đurđe Milanović, Dragan Jevtić, Aleksandar Bugarinović Faculty of Electrical Engineering, University of Belgrade; Tehnikum Taurunum High Technical School, Belgrade, IRITEL a.d., Belgrade; Faculty of technology and metallurgy, University of Belgrade; Central Institute for conservation, Belgrade; RAF, University Union, Belgrade; CIP, Belgrade; Megatrend, Belgrade; Serbian railways infrastructure a.d., Belgrade; Telekom Srpske, Bijeljina, Republika Srpska, Bosnia and Herzegovina Some tasks of laser techniques of interest for cultural heritage
2.12	Aleksandar Bugarinović, Telekom Srpske, Bijeljina, Republika Srpska, Bosnia and Herzegovina Thin film welding by electron beams and advantages of laser methods
2.13	Magdalena Dragović, Mileša Srećković, Aleksandar Čučaković, Marko Pejić, Jelena Pandžić Faculty of Civil Engineering, University of Belgrade Faculty of Electrical Engineering, University of Belgrade Selected Methods of Collecting and Processing of Field Data for Reconstruction of Single-Nave Church
2.14	Nimia Maria Herrera Guillen and Nagely Herrera State University of Panama, Panama On Cultural Heritage in Panama
2.15.	Rade Sekulić and Nikola Slavković Datacom Belgrade, Technical School for Information Technologies Optical Network in Systems for Prospects of Culture Monuments
19:00	CLOSING CEREMONY Radomir Glavički

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- Keywords: laser techniques, material processing, simulations

2.12 Thin Films, Electron Beam Welding and Advantages of Laser Methods

Aleksandar Bugarinović

Telekom Srpske, Bijeljina, Republika Srpska, Bosnia and Herzegovina

Abstract

Electron beam is used as a technique for evaporation of base in the formation of thin films, for etching films, repair, etc. Applications of fast electrons for welding, soldering, drilling and surface treatment processes of materials, has been known in the middle of the last century. Together with techniques of laser beams are one of the most intuitive use of laser and electron beams, with respect to this that the concept of welding is related with high-energy processes, and laser and electron beams are related with high power density. For a description of the interaction with high energy beams are developed analytical and numerical methods. In this paper will be presented some of the experiments done with samples of various sizes, connecting same and different materials, with the use of different energies and speed of passing beam. We looked at the effects of different techniques, in different modes of operation and different conditions, products in the material and make comparisons. We will characterize the compounds, conclusions and comments for conventional treatment processes, as well as for processes that are not included in conventional, but covered by the experiments.

Keywords: laser welding, electron beam

2.13 Selected Methods of Collecting and Processing Field Data for Reconstruction of the Single-Nave Church

Dragović Magdalena¹, Srećković Mileša², Čučaković Aleksandar¹, Pejić Marko¹, Pandžić Jelena¹

¹Faculty Civil Engineering, Univ. Belgrade, ²Faculty Electrical Engineering, Univ. Belgrade

Abstract

Modern technologies enable high-precision collecting of field data and its processing in order to create documentation, perform various analyses or reconstruction of buildings

that are an important part of cultural heritage. This paper presents procedures and methods implemented on two devastated single-nave churches at the territory of Serbia, which have been categorized as monuments of high national importance.

For the purpose of revitalization of monuments devastated due to their long time exposure to various environmental influences and wars, data acquisition was performed for two religious historical buildings which date back to the period of a great founder, dynasty ruler Stefan Lazarević (14-15th century). Both of these churches represent cultural heritage of Serbia. Data related to the Church of the Presentation of the Virgin in the village of Slavkovića near Ljig was obtained through the photogrammetric method of data acquisition, while the Church of St. George in the village of Nemenikuće on Mount Kosmaj was a subject of terrestrial laser scanning (TLS). Analyses of physical properties of material samples taken in the field were done as well. The resulting 3D models of the current state of the structures in the form of point clouds were used to perform various analyses (geometrical, architectural and construction style characteristics and construction techniques), whereby modern instruments and data processing software as well as graphics software for 3D modeling were employed. Based on the models of the current state of the structures and comprehensive analyses (historical, style, geometrical and proportional) virtual 3D models of the complete structures were created as conceptual proposals for rebuilding the devastated structures. For the church in Slavkovića this material was used for delivering a final architectural-construction design.

For the purpose of creating a 3D model of some cultural monument using modern methods, field data acquisition significantly differs from classical methods of measuring and delivering technical documentation (blueprints, views, sections, etc.). Current and indispensable procedures nowadays are photogrammetry (close-range and aerial) and laser scanning (terrestrial) which give a point cloud as a result. This point cloud is further on processed using appropriate software and serves as a base for creating documentation. The additional quality of the data obtained this way is the possibility of creating virtual 3D models accompanied by animations which can be used for historical, educational, scientific, cultural and informational purposes.

Keywords: field data acquisition, photogrammetry, TLS, graphic data processing, material analyses, geometric form analyses, 3D modeling.

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2.14 SOME OBJECTS OF CULTURAL HERITAGE IN PANAMA

Nimia Maria Herrera Guillen and Nagely Herrera

State University of Panama, Panama

Abstract

The Republic of Panama is located between 7 ° and 9 ° N and 77 ° and 83 ° W (Fig.1).

Before coming of the Spaniards, 1501, the area was inhabited by Indians with roots in Central America, South America, and the Caribbean Islands and localities, branches of the Maja and Inka. Spaniards have raised the settlement and started extracting silver and gold and exploiting other resources and transporting them from or to several locations. Needed workforce were mostly Indians, then black people from West Africa (Angola, Cameroon, Guinea and Congo). A pair of centuries later arrived Chinese, the Italians, the French and other Europeans, and the Americans at the end of XIX century. Over time it is created a mixture of races and customs, in which each group has kept some of own characteristics, but came to the prevalence of Spanish culture and white people. The mixture created a race mestizos - of whites and Indians, mulatos- of blacks and whites, zambos-of blacks and Indians, etc.

At present 70% of Panamanians are Mestizos (Fig.2), Mulatos and Afropanamenians 14%, Whites 10%, Indians 5% and 1% Asians, mostly Chinese, but at the same all live over the country, also with the allocation of the majority of Indians and Afropanamenians in some areas where they had settled over the centuries. Indians in their majority live in five Counties, with about seven different groups, and Afropanamenians in several sectors by the Caribbean Sea.

The core of the Indian population (Fig. 3) live quietly in their lands from times of the Spaniards arriving, cultivating their language and manners of life, dedicated to wooden sculptures, processing ornaments of multicolored beads or textile (Fig.4-6) or painting own body (Fig.7) and storytelling, but only two larger groups have the writing. They preserve dances, beliefs, clothing, moral code, political and social organization.

Afropanamenians as a form of resistance and opposition to Spaniard colonizers had talked mixing Spanish, English, French and Portuguese.

The remaining inhabitants are mainly nurture the languages and traditions of its origin and all recognize Spanish as the official language in Panama. Unlike the Europeans who

**SCIENTIFIC Meeting with International Participation Support of
Technological Sciences in Cultural Heritage Preservation and Ethical Aspects
(2016; Beograd)**

Book of Abstracts, Selected Papers and Posters From the Conference /
Scientific Meeting with International Participation Contemporary Support of
Technological Sciences in Cultural Heritage Preservation and Ethical Aspects,
November 5th, 2016, Belgrade ; [organized by] Central Institute for Conservation
[and] Society for Ethics and Evaluation of Culture in Science ; [editors Suzana
Polić, Sanja Petronić] = Knjiga apstrakata, izabranih radova i postera sa
konferencije / Naučni skup sa međunarodnim učešćem Savremena podrška
tehničko-tehnoloških nauka u očuvanju kulturne baštine i etički aspekti, 5.
novembar 2016, Beograd ; [organizatori] Централни институт за конзервацију
[i] Друštvo za etičnost i vrednovanje kulture u nauci ; [urednici Suzana Polić,
Sanja Petronić]. - Beograd : Central Institute for Conservation = Centralni institut
za konzervaciju : Society for Ethics and Evaluation of Culture and Science =
Društvo za etičnost i vrednovanje u kulturi i nauci, 2017 (Beograd : Službeni
glasnik). - 94 str. : ilustr. ; 25 cm

Radovi na srp. i engl. jeziku. - Tekst lat. i ćir. - Tiraž 50. - Bibliografija uz većinu
radova.

ISBN 978-86-6179-058-4 (CIZK)

1. Centralni institut za konzervaciju (Beograd) 2. Društvo za etičnost i
vrednovanje kulture u nauci (Beograd)

- a) Културна добра - Конзервација и рестаурација - Апстракти
- b) Културна добра - Заштита - Апстракти

COBISS.SR-ID 254697740