

Contents

ARCHITECTURE AND URBAN PLANNING

Nicolai M. Demin, Olga O. Mykhailyk	
<i>Preservation methods and revitalisation of river ecosystems in coastal territories</i>	5
Katarzyna Hodor, Albert Fekete	
<i>The sacred in the landscape of the city</i>	15
Ewa Łużyniecka	
<i>Architecture of medieval breweries in Cistercian abbeys</i>	23
Agnieszka Ozimek	
<i>Landscape dominant element – an attempt to parameterize the concept</i>	35
Barbara Stec	
<i>Sunlight and atmosphere in the Ark of the Lord Church in Krakow</i>	63

CHEMISTRY

Bożena Tyliczszak, Sonia Kudłacik-Kramarczyk, Anna Drabczyk, Magdalena Głąb	
<i>Novel hydrogels modified with xanthan gum – synthesis and characterization</i>	79

CIVIL ENGINEERING

Andrzej Flaga, Renata Kłaput, Agnieszka Kocóń	
<i>Model tests of global stability of two types of lightning protection masts under wind action</i>	93
Agnieszka Makowska	
<i>Verification of the spline method and its application to curvilinear objects</i>	113

ENVIRONMENTAL ENGINEERING

Grzegorz Kacprzak, Seweryn Bodus	
<i>The modelling of excavation protection in a highly urbanised environment</i>	133
Bernard Twaróg	
<i>The analysis of the reactive work of the Alden turbine</i>	143

MECHANICS

Hubert Danielewski	
<i>Laser welding of pipe stubs made from super 304 steel. Numerical simulation and weld properties</i>	167
Sylwia Kosecka-Żurek	
<i>Application of it tools in optimization of logistics problems</i>	177
Anna Kufel, Stanisław Kuciel	
<i>Composites based on polypropylene modified with natural fillers to increase stiffness</i>	187

Marcin Noga, Zdzisław Juda	
<i>The application of nimh batteries in a light-duty electric vehicle</i>	197
Norbert Radek, Piotr Kurp, Jacek Pietraszek	
<i>Laser forming of steel tubes</i>	223
Małgorzata Stojek	
<i>Engineering safety- and security-related quality requirements</i>	231