



VIII

ArCivE 2017
1 – 3 June 2017, Varna, Bulgaria

VIII INTERNATIONAL SCIENTIFIC CONFERENCE
n ARCHITECTURE AND CIVIL ENGINEERING
ArCivE 2017
1 – 3 June 2017, Varna, Bulgaria



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***VARNA FREE UNIVERSITY „CHERNORIZETS HRABAR”
FACULTY OF ARCHITECTURE***

ПРОГРАМА

VIII

ArCivE 2017

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PROGRAM

***VIII INTERNATIONAL SCIENTIFIC CONFERENCE
n ARCHITECTURE AND CIVIL ENGINEERING
ArCivE 2017***

***under the auspices of Prof. Anna Nedyalkova, DSc –
President of Varna Free University „Chernorizets Hrabar”***

01.06.2017

9:00 – 10:30 <i>USK Hall</i>	Registration
10:30 – 11:00 <i>1</i> USK 1	<ul style="list-style-type: none">• „• „ <p>Opening of the Conference</p> <ul style="list-style-type: none">• <i>Corresponding Member Prof. Atanas Kovachev, DSc, Dean of the Faculty of Architecture, Varna Free University “Chernorizets Hrabar”</i>• <i>Speech by Prof. Anna Nedyalkova, DSc, President of Varna Free University “Chernorizets Hrabar”</i>
PLENARY REPORTS	
ARCHITECTURE AND CIVIL ENGINEERING 1 / USK 1	
Head: <i>Corresponding Member Prof. Atanas Kovachev, DSc</i> Secretary: <i>Natasha Baklarova, PhD</i>	
11:00 – 11:20	Yatchko Ivanov SUSTAINABLE CONSTRUCTION WITH CONTRIBUTION TO SUSTAINABLE DEVELOPMENT
11:20 – 11:40	Borislav Borisov, Atanas Kovachev TERRITORIAL PLANNING AND TOWN PLANNING OR SPATIAL PLANNING AND URBANISM?
11:40 – 12:00	Konstantin Kazakov INFINITE ELEMENTS AND APPLICATION IN FEM CODES (FREQUENCY AND TIME DOMAIN)
12:00 – 12:20	Krasimir Shotarov, Svilen Stoyanov IMPROVING WORKING CONDITIONS AND OCCUPATIONAL SAFETY AT THE TERRITORIAL AND STRUCTURAL UNITS OF DG FSCP-MOI

<p>13:00 – 14:00</p> <p><i>Restaurant VFU</i></p>	<p style="text-align: right;">LUNCH</p>
<p style="text-align: center;">01.06.2017</p>	
<p>I:</p>	<p style="text-align: right;">SECTION I: ARCHITECTURE</p>
<p style="text-align: center;">I.1: SECTION I.1: SUSTAINABLE ARCHITECTURE 1/USK 1</p> <p style="text-align: right;"><i>Head: Arch. Plamen Petrov, PhD Secretary: Assist. Arch. Desislava Hristova</i></p>	
<p>14:00 – 14:15</p>	<p style="text-align: right;"><i>Ekaterina Sentova</i> INTERACTIONS OF THE ARCHITECTURAL CONCEPTS FOR THE PURPOSES OF SUSTAINABLE DESIGN METHODS</p>
<p>14:15 – 14:30</p>	<p style="text-align: right;"><i>Stefan Asparuhov, Vyara Gancheva, Dimitrina Popova, Angel Enkin</i> SOCIOCULTURAL BEHAVIOR AS A FACTOR FOR SUSTAINABLE REVI ALIZATION OF THE INTERGROUND SPACES IN MASS HOUSING DISTRICTS</p>
<p>14:30 – 14:45</p>	<p style="text-align: right;"><i>Aleksandar Boyadzhiev</i> FINDING WORKING MECHANISMS AND OPERATIONAL BUSINESS PLASNS FOR THE REVITALIZATION OF THE ABONDONED INDUSTRIAL ZONES IN THE BIG CITIES IN BULGARIA</p>
<p>14:45 – 15:00</p>	<p style="text-align: right;"><i>Yusuf Nalbant, Stefan Asparuhov</i> TPOLOGY OF SUPPLEMENTARY BUILDINGS IN RESIDENTIAL TERRITORIES OF SMALL SETTLEMENTS IN BULGARIA</p>

<p>15:00 – 15:15</p>	<p style="text-align: right;"><i>Evgenia Dimova-Alexandrova</i> <i>TRADITIONS AND MODERNITY IN THE DEVELOPMENT OF VARNA'S BLACK SEA COAST RESORTS</i></p>
<p>15:15 – 15:30</p>	<p style="text-align: right;"><i>Mladen Tanov</i> <i>INTERRELATION BETWEEN PUBLIC PEDESTRIAN AREAS AND ROUTES, AND NEW URBAN GREEN SYSTEM ELEMENTS</i></p>
<p>15:30 – 15:45</p>	<p style="text-align: center;">(SHARED SPACE) –</p> <p style="text-align: right;"><i>Stanimir Velichkov</i> <i>SHARED SPACE – DESIGN AND PART OF THE BICYCLE INFRASTRUCTURE IN THE URBAN ENVIRONMENT</i></p>
<p>15:45 – 16:00</p>	<p style="text-align: right;"><i>Plamen Petrov</i> <i>THE PRINCIPLES OF BIOMIMICRY APPLIED TO MIXED USE OFFICE AND RETAIL BUILDING IN HARARE, ZIMBABWE</i></p>
<p>16:00 – 16:30</p>	<p style="text-align: center;">–</p> <p style="text-align: right;"><i>COFFEE BREAK</i></p>
<p>16:30 – 16:45</p>	<p style="text-align: right;"><i>Dimitar Vlasarev</i> <i>ROLE AND PLACE OF RECREATIONAL AXES IN INDUSTRIAL AREAS AND MICRO-REGIONS</i></p>
<p>16:45 – 17:00</p>	<p style="text-align: center;">–</p> <p style="text-align: right;"><i>Dimitar Vlasarev</i> <i>SMALL AND MEDIUM-SIZED ENTERPRISES – CLUSTER STRUCTURES FOR GRAIN AND GRAIN PROCESSING – ARCHITECTURA SOLUTIONS</i></p>
<p>17:00 – 17:15</p>	<p style="text-align: right;"><i>Vladimir Kolev</i> <i>SIGNS INTERPRETATION OF DESIGN PRODUCTS MADE FROM SECONDARY MATERIALS</i></p>

17:15 – 17:30	– <i>Neli Trizlova</i> <i>SMART CITIES - CITIES OF THE FUTURE</i>
17:30 – 17:45	3D <i>Ventseslav Bichov</i> <i>TECHNOLOGIES FOR 3D DIGITALIZATION AND THEIR USAGE IN ARCHITECTURE AND BUILDING</i>
17:45 – 18:00	Orly Talyosef NEW REALITY- PRINT ME A HOUSE?
18:00 – 18:30	<i>DISCUSSION</i>

1.06.2017г.

I: SECTION I: ARCHITECTURE

I.2:

SECTION I.2: SUSTAINABLE RENOVATION OF CULTURAL MONUMENTS
307 / 307

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Head: Assoc. Prof. Krasimira Vacheva, PhD
Secretary: Assist. Arch. Jechka Ilieva

14:00 – 14:15	<i>Valentina Edreva</i> <i>LEGISLATION AND ITS IMPACT ON SUSTAINABLE CONSERVATION OF IMMOVABLE CULTURAL HERITAGE</i>
14:15 – 14:30	” . “, . – IV–XV . <i>Valentina Edreva</i> <i>THE CHURCH "ST. GEORGE ", STUDENA VILLAGE - A TYPICAL REPRESENTATIVE OF THE LOCAL CONSTRUCTION AND ARTISTIC TRADITION DURING THE XIV - XV CENTURIES IN BULGARIA</i>
14:30 – 14:45	– <i>Irina Dakova</i> <i>MONITORING OF ARCHITECTURAL HERITAGE – KEY METHOD FOR SUSTAINABLE PRESERVATION</i>

14:45 – 15:00	<p style="text-align: center;"><i>Konstantin Velinov, Alben Apostolova, Fantina Rangelova</i> METHODS FOR INVESTIGATION AND RETROFITTING, MANAGEMENT AND ADAPTATION OF IMMOVEABLE CULTURAL HERITAGE SITES IN BULGARIA IN THE LIGHT OF GLOBAL SUSTAINABLE DEVELOPMENT</p>
15:00 – 15:15	<p style="text-align: center;"><i>Simona Guergova</i> VERTICAL GREENING AND THE MINIMAL LANDSCAPING RATIO REQUIREMENTS IN THE LEGAL FRAMEWORKS OF SOFIA AND BERLIN</p>
15:15 – 15:30	<p style="text-align: center;"><i>Krasimira Vacheva</i> FOR THE SUSTAINABLE PRESERVATION OF IMMOVABLE ARCHAEOLOGICAL CULTURAL VALUES IN BULGARIA</p>
15:30 – 16:00	DISCUSSION
16:00 – 16:30	COFFEE BREAK

01.06.2017	
II: SECTION II: BUILDING CONSTRUCTIONS, MATERIALS AND TECHNOLOGIES 407 / 407 Head: Assoc. Prof. Eng. Ivan Pavlov, PhD Secretary: Assist. Eng. Nikolay Kuzmanov, PhD	
14:00 – 14:15	<p style="text-align: center;"><i>Atanas Georgiev</i> THE SECOND ORDER EFFECTS IN REINFORCED CONCRETE COLUMNS: NOMINAL STIFFNES METHOD OR NOMINAL CURVATURE METHOD?</p>
14:15 – 14:30	<p style="text-align: center;"><i>Nikola Angelov</i> COMPARE OF SHEAR AND PUNCHING FOR SINGLE FOUNDATION LOADING WITH NORMAL FORCE</p>

14:30 – 14:45	Konstantin Kazakov, Iliana Stoyanova RESPONSE OF COLUMN-FLAT SLAB CONNECTION SUBJECTED TO DYNAMIC HARMONIC EXCITATIONS
14:45 – 15:00	Konstantin Kazakov, Anita Handruleva, Iliana Stoyanova, Vl. Matuski HEAT COMFORT PROVIDING OF EISTING PUBLIC BUILDING WITH LOW ENERGY COST
15:00 – 15:15	, Ana-Maria Mitu Dimitar Stefanov, Ana-Maria Mitu EFFECT OF BASE INSULATION WITH TRIPLE FRICTION PENDULUM (TFP) BEARINGS ON THE RESPONSE OF REINFORCED CONCRETE BUILDING
15:15 – 15:30	() Antoaneta Kaneva ASSESSMENT OF SEISMIC DAMAGES IN ELEMENTS OF THE TECHNICAL INFRASTRUCTURE (THERMAL UTILITY SYSTEM)
15:30 – 15:45	Dariya Mihaleva, Ivan Pavlov EQUIVALENT RECTANGULAR WORK DIAGRAM OF CONFINED CONCRETE
15:45 – 16:00	Ivan Pavlov, Dariya Mihaleva BENDING CAPACITY OF REINFORCED CONCRETE BEAMS WITH RECTANGULAR CROSS SECTION AND CONFINED COMPRESSION ZONE
16:00 – 16:30	– COFFEE BREAK

16:30 – 16:45	<i>Konstantin Velinov, Albena Apostolova, Fantina Rangelova</i> BLAST RISK ASSESSMENT FOR STRUCTURES
16:45 – 17:00	<i>Konstantin Velinov</i> BLAST RESISTANT STRUCTURES
17:00 – 17:15	<i>Valeriy Naidenov, Ivan Rostovsky</i> HYBRID FIBER-REINFORCED CONCRETES
17:15 – 17:30	<i>Valeriy Naidenov, Ivan Rostovsky</i> PROTECTIVE DEEP-CRYSTALLIZED SYSTEMS FOR FINISHING OF INDUSTRIAL FIBER-REINFORCED CONCRETE FLOORINGS
17:30 – 17:45	<i>Panayot Panayotov, Todor Petkov</i> MECHANICAL PROPERTIES OF BUILDING CONSTRUCTIVE ELEMENTS FROM GLUED WOOD
17:45 – 18:00	<i>Gergana Georgieva</i> USING OF MINERALS FROM THE BLACK SEA BASIN FOR PRODUCTION OF HEAT-INSULATING MATERIALS
18:00 – 18:15	<i>Angel Ushev</i> APPLICATION OF CONTEMPORARY TECHNOLOGIES FOR MONITORING OF FIRE WATER SUPPLY SYSTEMS
18:15 – 18:30	DISCUSSION

01.06.2017

**III:
SECTION III: SAFETY TECHNIQUE
207/ 207**

*Head: Assoc. Prof. Eng. Gencho
Panicharov, PhD*

Secretary: Assist. Ali Chakar, PhD

14:00 – 14:15	Necmi Özdemir, Fikret Kir, Emin Pehlivan FIRE PROTECTION CONCEPT IN ELECTRIC FIELDS
14:15 – 14:30	Orhan Oduncu, Necmi Özdemir INVESTIGATION ON THE REASONS OF THE ELECTRICITY FIRE AND THE MEASURES
14:30 – 14:45	<i>Firat Ertush Ertürk</i> <i>SAFETY REQUIREMENTS FOR WORKERS IN SOCIAL SERVICE OBJECTS</i>
14:45 – 15:00	Kemal Terzioglu, Ali Chakar COOPERATION SYSTEM IN INDUSTRIAL PLANTS
15:00 – 15:15	Kemal Terzioglu, Ali Chakar SMOKE DISCHARGE SYSTEM IN INDUSTRIAL FACILITIES
15:15 – 15:30	Murat Kabali FIRE ZONE IN INDUSTRIAL PLANTS
15:30 – 15:45	Sahin plikci, Yalcin Karagozler, Milena Kichekova, Stefan Terziev, Ali Chakar THE POSSIBLE DAMAGES and CASUALITIES RESULT FROM ILLEGAL ASSEMBLY of PYROTECHNICAL EQUIPMENTS: ZEYT NBURNU CASE STUDY
15:45 – 16:00	Didem Karagözler AN EXAMINATION on GATED COMMUNITIES in TURKEY'S TELEVISION ADVERTISING
16:00 – 16:30	COFFEE BREAK
16:00 – 16:15	<i>Derya Özdemir, Gencho Panicharov, Suat Ketten</i> <i>STUDY ABOUT PROVIDING BUILDING SAFETY AGAINST FOREST FIRES BY ARCHITECTURAL PLANNING WAYS OF FACILITIES</i>
16:15 – 16:30	Ismail Hocaoglu, Derya Ozdemir, Mete Cece BASIC RULES AND SECURITY CULTURE OF OCCUPATIONAL HEALTH SECURITY IN HOSPITALS
16:30 – 16:45	Derya Ozdemir, Mesut Demir, Ismail Hocaoglu, Osman Turgut, G. Panicharov, Al. Kirov, Aneta Georgieva, Neli Trizlova, Ali Chakar STUDY ON ASBESTOS DUST REMOVAL AND PERSONAL PROTECTIVE EQUIPMENT USAGE IN CONSTRUCTION SECTOR

16:45 – 17:00	<p>O</p> <p>A GSM</p> <p style="text-align: right;"><i>Osman Turgut</i></p> <p><i>TECHNICAL SAFETY EXPLOITATION ON NETWORK FROM BASIC GSM STATIONS</i></p>
17:00 – 17:15	<p>Selin Bahar Bengi</p> <p>ANALYSIS ON SAFETY OF LABOR IN LOGISTIC TRANSPORT ON CHEMICAL MATERIALS</p>
17:15 – 17:30	<p>Selin Bahar Bengi, Tatyana Stoyanova</p> <p>ANALYSIS OF WORK SAFETY PREREQUISITES IN LOGISTIC STOCKS FOR CHEMICAL MATERIALS</p>
17:30 – 17:45	<p style="text-align: center;">, ,</p> <p style="text-align: center;"><i>Yoznur Sevme, Milena Kichekova, Dimitar Dimitrov</i></p> <p style="text-align: center;"><i>TECHNICAL SAFETY IN AUTOMATED MANAGEMENT OF THE PROCESSES FOR ENERGY EFFICIENCY IN A UNIVERSITY BUILDING</i></p>
17:45 – 18:00	<p style="text-align: center;">, ,</p> <p style="text-align: center;"><i>Nikolay Pashov, Milena Kichekova, Dimitar</i></p> <p style="text-align: center;"><i>POSSIBILITIES FOR ENHANCING THE ENERGY EFFICIENCY OF THE LIGHTING IN PEDESTRIAN UNDERPASSES</i></p>
18:00 – 18:30	DISCUSSION

02.06.2017	
<p>I:</p> <p>SECTION I: ARCHITECTURE</p> <p>1/USK 1</p>	
<p>Head: Arch. Radost Raynovska, PhD</p> <p>Secretary: Assist. Arch. Hristo Topchiev</p>	
9:00 – 9:15	<p style="text-align: center;">, - „</p> <p style="text-align: center;"><i>Plamen Genov, Elena Ivanova-Genova</i></p> <p style="text-align: center;"><i>TWO FORMS OF ARCHITECTURAL DESIGN - "CONCEPT IN MATERIAL"</i></p>
9:15 – 9:30	<p style="text-align: right;"><i>Hristo Topchiev</i></p> <p style="text-align: center;"><i>THE LINK BETWEEN DESIGN AND DIGITAL FABRICATION OF CONCRETE ELEMENTS FOR THE ARCHITECTURAL ENVIRONMENT</i></p>

9:30 – 9:45	SWOT- 3D- <i>Roumiana Zaharieva, Yana Kancheva</i> <i>SWOT-ANALYSIS OF 3D PRINT TECHNOLOGY IN THE SUSTAINABLE CONSTRUCTION CONTEXT</i>
9:45 – 10:00	<i>Ginka Veselinova</i> <i>REQUIREMENTS FOR IMPLEMENTATION EXTERNAL THERMAL INSULATION COMPOSITE SYSTEMS AND THE CONSEQUENCES OF IGNORING THEM</i>
10:00 – 10:30	– COFFEE BREAK
10:30 – 10:45	<i>Angel Maznikov</i> <i>ARCHITECTURAL SUSTAINABLE DESIGN OF BUILDING SERVICE SYSTEMS AS PART OF INDUSTRIAL BUILDINGS</i>
10:45 – 11:00	<i>Iliana Ovtcharova, Iancho Genchev</i> <i>ADAPTIVE REUSE OF POST-INDUSTRIAL ENTERPRISES. DYSFUNCTIONAL ENTERPRISES OF FURNITURE INDUSTRY LOCATED IN SOFIA-CITY</i>
11:00 - 11:15	E <i>Radost Raynovska</i> <i>SPATIAL DEVELOPMENT OF RECEPTION AREAS IN PUBLIC BUILDINGS OF CULTURE EDUCATION</i>
11:15 – 11:30	<i>Kapka Manasieva</i> <i>DESIGN MANAGEMENT IN ARCHITECTURE AND CONSTRUCTION</i>
11:30 – 11:45	<i>Jetchka Ilieva, Gergana Zhelyazkova</i> <i>RELIGIOUS TOURISM - A RESOURCE FOR REGIONAL DEVELOPMENT AND PRESERVATION OF CULTURAL HERITAGE</i>
11:45 – 12:00	DISCUSSION

02.06.2017

**IV:
SECTION IV: STUDENT SCIENTIFIC SESSION
3 / USK 3**

Head: Assoc. prof. Galina Todorova, PhD

Secretary: Arch. Tsveta Jekova, PhD

9:00 – 9:15

Ivailo Gadjevov
**PROBLEMS IN CONSERVATION AND PRESERVATION OF THE REAL
CULTURAL VALUES**

9:15 – 9:30

Ivailo Gadjevov
**METHODOLOGY FOR ASSESSMENT OF THE RISK FROM
IONIZATION RADIATION**

9:30 – 9:45

Tsveta Zhekova, Rosen Kamenov
**CONTEMPORARY METHODS FOR CLIMATE ANALYSIS FOR ENERGY
EFFICIENT BUILDING DESIGN**

9:45 – 10:00

Tsveta Zhekova, Desislava Ivanova
**BUILDING INFORMATION MODELING (BIM) AS A METHOD OF
DESIGN AND SUSTAINABLE CONSTRUCTION**

10:00 – 10:30

COFFEE BREAK

10:30 – 10:45

Dimitar Dimitrov
CATEGORIES TALL BUILDINGS

10:45 – 11:00

Dimitar Dimitrov
**DYNAMICS ON THE BEACH OF THE HOTEL "DOLPHIN MARINA" –
VARNA**

11:00 - 11:15

Stefan Vassilev
**UNDERWATER PVC GEOCOMPOSITE IMPLEMENTATION ON
UPSTREAM SLOPE AT STUDENA DAM**

11:15 – 11:30	<p style="text-align: right;"><i>Georgi Vasilev, Dariya Mihaleva</i> EMERGENCY STRENGTHENING OF THE CHURCH “ST. ST. KIRIL I METODIY” IN BURGAS</p>
11:30 – 12:00	DISCUSSION

02.06.2017	
<p>II:</p> <p>”</p> <p>SECTION II: BUILDING CONSTRUCTIONS, MATERIALS AND TECHNOLOGIES</p> <p>SCIENTIFIC-PRACTICAL SEMINAR „SUSTAINABLE BUILDING FOR SUSTAINABLE FUTURE”</p> <p>3 / USK 3</p> <p>Head: Assoc. Prof. Eng. Rosits Petkov ,PhD Secretary: Arch. Plamen Petrov, PhD</p>	
13:00 – 13:30	<p style="text-align: right;"><i>Rayna Miteva</i> THE MAGIC OF CONCRETE - THE URBAN CEMENT PRODUCTS OF "DEVNIA CEMENT"</p>
13:30 – 14:00	<p>KNAUF CLEANEO -</p> <p style="text-align: right;"><i>Plamen Penkov</i> KNAUF CLEANEO – SYSTEMS FOR BEAUTIFUL DESIGN, PERFECT ACOUSTICS AND PURE AIR</p>
14:00 – 15:00	<p style="text-align: center;">(FRP)</p> <p style="text-align: right;"><i>Krassimir Vyzgechev</i> STRENGTHENING OF REINFORCED CONCRETE STRUCTURES WITH COMPOSITE (FRP) MATERIALS</p>
15:00 – 15:30	<p style="text-align: right;"><i>Georgi Ivanov</i> EXPERIMENTAL PRODUCTION OF HIGH-STRENGTH CONCRETE ELEMENTS</p>

CONFERENCE TIME-SCHEDULE

/Hour	1 HALL USK 1	407 HALL 407	3 HALL USK 3	307 HALL 307	207 HALL 207
01.06.2017					
9:00 – 10:30	<i>REGISTRATION</i>				
10:30 – 11:00	<i>OPENING OF THE CONFERENCE</i>				
11:00 – 12:20	<i>PLENARY REPORTS</i>				
13:00 – 14:00	<i>/LUNCH</i>				
14:00 – 16:00	I.1 <i>SECTION I.1</i>	II <i>SECTION II</i>	1 <i>SEMINAR 1</i>	I.2 <i>SECTION I.2</i>	III <i>SECTION III</i>
16:00 – 16:30	<i>- /COFFEE BREAK</i>				
16:30 – 18:30	I.1 <i>SECTION I.1</i>	II <i>SECTION II</i>	1 <i>SEMINAR 1</i>		III <i>SECTION III</i>
19:00	” OFFICIAL DINNER IN THE RESTAURANT OF THE VARNA FREE UNIVERSITY “CHERNORIZETS HRABAR”				
02.06.2017					
9:00 – 10:00	I <i>SECTION I</i>		IV <i>SECTION IV</i>		
10:00 – 10:30	<i>- /COFFEE BREAK</i>				
10:30 – 12:00	I <i>SECTION I</i>		IV <i>SECTION IV</i>		
12:00 – 13:00	<i>/LUNCH</i>				
13:00 – 16:00			II 2 <i>SECTION II SEMINAR 2</i>		
03.06.2017					
10:00 – 16:00	<i>EXCURSION to “DVORECA” in BALCHIK</i>				

I:

SECTION I: ARCHITECTURE

I.1:

SECTION I.1: SUSTAINABLE ARCHITECTURE

SECTION I.2:

SECTION I.2: SUSTAINABLE RENOVATION OF CULTURAL MONUMENTS

II:

SECTION II: BUILDING CONSTRUCTIONS, MATERIALS AND TECHNOLOGIES

III:

SECTION III: SAFETY TECHNIQUE

IV:

SECTION IV: STUDENT SCIENTIFIC SESSION

1:

SEMINAR 1: INNOVATIVE TECHNOLOGIES AND MATERIALS FOR ROAD CONSTRUCTION

2:

SEMINAR 2: SCIENTIFIC-PRACTICAL SEMINAR “SUSTAINABLE BUILDING FOR SUSTAINABLE FUTURE”