

*“VASIL LEVSKI” NATIONAL MILITARY UNIVERSITY,
“ARTILLERY, AIR DEFENSE AND CIS” FACULTY, SHUMEN, BULGARIA
MILITARY TECHNICAL ACADEMY “FERDINAND I”, ROMANIA
“HENRY COANDA” AIR FORCE ACADEMY, BRASOV, ROMANIA
WAR STUDIES UNIVERSITY, WARSAW, POLAND
MILITARY UNIVERSITY OF TECHNOLOGY, WARSAW, POLAND
„SPIRU HARET“ UNIVERSITY, BUCHAREST, ROMANIA
POLISH AIR FORCE UNIVERSITY – FACULTY OF NATIONAL DEFENSE AND LOGISTICS
REZEKNE ACADEMY OF TECHNOLOGIES, REZEKNE, REPUBLIC OF LATVIA
CROATIAN DEFENCE ACADEMY "DR. FRANJO TUĐMAN", ZAGREB, CROATIA
HELLENIC ARMY ACADEMY, ATHENS, GREECE*



***INTERNATIONAL
SCIENTIFIC
CONFERENCE***

***EXHIBITION
OF PRODUCTS FOR
SECURITY AND DEFENSE***



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and Science Contract № KP-06-MNF/ 19 dated 16.07.2020*

A G E N D A

***October 7–9, 2020
Shumen, Bulgaria***

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- member of the state Parliament of Latvia, Science and Education sub-committee of the Education, Culture and Science committee
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- LTC Assoc. Prof. Eng. B. BIERNACIK, Ph.D., WSU, Poland
- Col. DSc. Prof. Zbigniew LECIEJEWSKI, Vice Dean for Science of the Faculty of Mechatronics and Aerospace Military University of Technology, Poland

7 October 2020

- 08.30 - 10.00 Transportation from Shumen to the firing field
10.00 - 13.30 Field Artillery Shooting Show
13.30 - 14.00 Briefing and awarding on the artillery range
14.00 – 14.40 Transportation from artillery range to Shumen
15.30 – 18.00 Visit to an exhibition of security and defense products - exposition of the vendors

8 October 2020

- 08.00 - 09.45 Registration
10.00 - 10.30 Opening ceremony
10.30 - 12.30 Plenary session- Part 1
13.00 - 14.00 Lunch
14.30 - 17.00 Plenary session- Part 2
15.30 – 16.00 Coffee break
19.00 – 23.00 Official dinner

9 October 2020

- 08.30 - 09.30 Briefing hall of the Foreign Language Department
Round table and discussion on „*LASER SAFETY FOR EU DEFENCE FORCES - E-LEARNING PLATFOR*“ – Prof. DSc. Lyubomir Lazov, Faculty of Engineering, Rezekne Academy of Technologies, Republic of Latvia
- 09.40 - 13.30 Work of the scientific sections
10.30 - 11.00 Coffee break
13.30 - 14.30 Lunch
14.30 – 16.30 Work of the scientific sections
16.30 – 17.00 Briefing - Closing of the scientific conference

8 октомври 2020

PLENARY SESSION

Location: Shumen Municipality Hall

I panel

Откриване	10.00-10.30	- Col. Ivan Malamov
✓ MATERIAL DEFLECTION AND BULLET RICOCHET DETERMINATIONS FOR DIFFERENT ANGLES OF FIRING ON A CONCRETE PLATE	10.30-10.50	- NECULAI-DANIEL ZVÎNCU, CRISTIAN-EMIL MOLDOVEANU, IOAN VEDINAŞ - <i>FACULTY OF INTEGRATED ARMAMENT SYSTEMS, MILITARY ENGINEERING AND MECHATRONICS, MILITARY TECHNICAL ACADEMY „FERDINAND I“, BUCHAREST, ROMANIA</i>
▪ Question and discussion	10.50-11.10	
✓ RESEARCH CONCERNING THE SECURITY IMPROVEMENT IN THE INFANTRY SHOOTING RANGE	11.10-11.30	- CRISTIAN-EMIL MOLDOVEANU, NECULAI-DANIEL ZVÎNCU – <i>MILITARY TECHNICAL ACADEMY „FERDINAND I“, BUCHAREST, ROMANIA</i>
▪ Question and discussion	11.30-11.50	- ALEXANDRA-MIHAELA OLAR-POP, THOMAS GADEN – <i>ECAM STRASBOURG, FRANCE</i>
✓ SECURITY OF CRITICAL INFRASTRUCTURES UNDER THE EVOLUTION OF ADVANCED TECHNOLOGIES	11.50-12.10	- BENEDICTOS IORGA – <i>SPIRU HARET UNIVERSITY, FACULTY OF ENGINEERING AND COMPUTER SCIENCE, BUCHAREST, ROMANIA</i>
▪ Question and discussion	12.10-12.30	

II panel

14.30-17.00

*Location: Briefing Hall 7201, Foreign Language Department
Block 26, 2nd floor*

Presentation of the Defensive Products

Dunarit AD

Vazov machine-building plant EAD

WORKGROUP SESSION
SECTION
SECURITY AND DEFENSE

Chairman: Col. Assoc. Prof. Atanas. L. Atanasov, Ph.D.

Location: Room 08401, Block 8, IV floor

09.40-09.55 *Plamen N. Bogdanov, PhD - National Security Department, University of Library Studies and Information Technologies, Sofia, Bulgaria*

BRIEF ANALYSIS OF THE ACTIONS OF THE YUGOSLAV AIR DEFENCE DURING THE MILITARY CONFLICT IN FEDERAL REPUBLIC OF YUGOSLAVIA IN 1999

09.55-10.10 *Assoc. Prof. Eng. Maxim Alashki, PhD – Ministry of Defence, Armaments Policy Directorate*

REGULATION ON THE CONDITIONS AND PROCEDURE FOR ISSUING A PERMIT FOR RELEASE UNDER THE LAW ON PROTECTION FROM THE HARMFUL EFFECT OF CHEMICAL SUBSTANCES AND MIXTURES

10.10-10.30 *Yuliyana G. Velkova, PhD - International Business School, Botevgrad, Bulgaria*

CURRENT CHALLENGES IN THE FINANCIAL MANAGEMENT IN THE PRIVATE SECURITY COMPANY

10.30-11.00 Coffee break

11.00-11.45 *Valentin I. Georgiev - Emergency situation management chair „G.S. Rakovski“ National Defense College Sofia, Bulgaria*

1. THE NEED FOR CIVIL-MILITARY COOPERATION AND ASSOCIATED CHALLENGES
2. MIGRATION AND MOBILITY IN A PERIOD OF GROWING UNCERTAINTY
3. THE INFLUENCE OF ENVIRONMENTAL FACTORS ON THE PLANNING PROCESS

- 11.45-12.00 ***Ivaylo Zh. Bozov, Veliko P. Petrov – Faculty of Artillery, Air Defense and Communication and Information Systems, National Military University***
HIGHLIGHTS OF NATO'S EXERCISE PLANNING PROCESS IN CRISES AND DISASTER RESPONSE
- 12.00-12.15 ***Veliko P. Petrov, Ivaylo Zh. Bozov – Faculty of Artillery, Air Defense and Communication and Information Systems, National Military University***
WATER CRISES AROUND THE WORLD AND THE REPUBLIC OF BULGARIA
- 12.15-12.30 ***Veliko P. Petrov, Stancho G. Stanchev – Faculty of Artillery, Air Defense and Communication and Information Systems, National Military University***
FUTURE WARS RELATED TO WATER RESOURCES
- 12.30-12.45 ***Veliko P. Petrov, Kaloyan A. Iliev – Faculty of Artillery, Air Defense and Communication and Information Systems, National Military University***
ORGANIZATIONAL AND LEGAL ASPECTS OF THE REGULATION OF THE WORLD WATER RESOURCES
- 12.45-13.00 ***Ivaylo Zh. Bozov – Faculty of Artillery, Air Defense and Communication and Information Systems, National Military University***
UTM COORDINATE SYSTEM AND THE MILITARY GRID REFERENCE SYSTEM (MGRS). COORDINATE GRID, THE SPECIFICS OF TARGETING AND DETERMINING THE COORDINATES
- 13.00-13.15 ***Kalin V. Gradev - Defense and staff Faculty, Rakovski National Defense College, Sofia, Bulgaria***
COURSES FOR EVOLUTIONARY DEVELOPMENT OF EUROPIAN MILITARY FORSES
- 13.00-13.30 ***Ivayloi Hinov - National Defence College Georgi S. Rakovski, Command and Staff Faculty, Sofia***
TRAINING AS A FACTOR FOR THE COMBAT ABILITY OF TACTICAL LAND FORCES

- 13.30-14.30 Lunch break
- 14.30-14.45 ***Hristo A. Desev, Kaloyan A. Iliev – Faculty of Artillery, Air Defense and Communication and Information Systems, National Military University***
- ANALYSIS OF THE REQUIREMENTS FOR THE SECURITY SYSTEMS OF OBJECTS FROM THE CRITICAL INFORMATION INFRASTRUCTURE
- 14.45-15.00 ***Hristo A. Desev – Faculty of Artillery, Air Defense and Communication and Information Systems, National Military University***
1. PROBLEMS OF PREVENTION IN THE PROTECTION OF INFORMATION CRITICAL INFRASTRUCTURE
 2. FACTORS CHARACTERIZING THE ACCURACY IN DETERMINING THE ORIENTED DIRECTIO
- 15.00-15.15 ***Nikola T. Stoyanov - Department of Distant Learning, Language Education and Qualification, G.S.Rakovski National Defence Academy, Sofia, Bulgaria*** HAPPINESS AS A FUNCTION OF SOCIALLY SIGNIFICANT FACTORS FREEDOM OF SPEECH, CORRUPTION AND SECURITY
- 15.15-15.45 ***Kaloyan A. Iliev – Air Defense and CIS Faculty, National Military University “Vasil Levski”, Shumen, Bulgaria***
1. STATE AND PERSPECTIVES FOR DEVELOPMENT OF BLOW ARTILLERY AND MRLS
 2. METHODS FOR CLASSIFICATION OF OBJECTS FOR DEFEATING THE ENEMY IN OPERATIONS
- 15.45-16.30 Question and discussion

WORKGROUP SESSION

SECTION

ARMS, TECHNOLOGIES, LOGISTICS

Chairman: Col. Prof. Krasimir Kalev, Ph.D.

Location: Room 08102, Block 8, floor I

09.40-09.55 ***Mihai I. Ungureanu, Florin M. Dîrloman - Department of Armament Systems and Mechatronics Engineering, Military Technical Academy „Ferdinand I”, Bucharest, Romania***

HIGH SPEED IMPACT TESTING AND BALLISTIC MODELING

09.55-10.10 ***Col. Eng. Assoc. Prof. Conuy G. Conev, LTC Assoc. Prof. Eng. Stamen I. Antonov – Artillery, Air Defense and CIS Faculty, National Military University “Vasil Levski”, Shumen, Bulgaria***

INFLUENCE OF SUPERFLUOUS MATERIAL RESOURCES CLASS FIVE - AMMUNITION ON THE MODERNIZATION OF THE BULGARIAN ARMY AND NATIONAL SECURITY RISKS ARISING FROM THE LARGE AMOUNT OF SUPERFLUOUS AMMUNITION IN THE ARMY

10.10-10.30 ***LTC Assoc. Prof. Eng. Stamen I. Antonov, Col. Eng. Assoc. Prof. Conuy G. Conev – Artillery, Air Defense and CIS Faculty, National Military University “Vasil Levski”, Shumen, Bulgaria***

3D PRINTING IN INDUSTRY

10.30-11.00 Coffee break

11.00-11.15 ***Bartosz Fikus, Radosław Trębiński – Department of Artillery and Ballistics, Faculty of Mechatronics, Armament and Aerospace of the Military University of Technology, Warsaw, Poland***

NUMERICAL SIMULATION OF SUBMACHINE GUN OPERATION CYCLE

11.15-11.30 ***Rotariu Adrian-Nicolae, Matache Liviu-Cristian, Trana Eugen, Bucur Florina, Cirmaci-Matei Marius-Valeriu - Military Technical Academy, Bucharest, Romania***

Mitrică Dumitru - National Research & Development Institute for Non-ferrous and Rare Metals, Romania

Geantă Victor - University Politehnica of Bucharest, Romania

DETERMINATION OF THE COMPRESSIVE STRENGTH OF HEA IN HIGH STRAIN RATE TESTS

11.30-11.45 ***Kaloyan A. Iliev – Air Defense and CIS Faculty, National Military University “Vasil Levski”, Shumen, Bulgaria***

CHARACTERISTICS OF THE ARTILLERY AMMUNITION USED AND TENDENCIES FOR THEIR DEVELOPMENT

11.45-12.00 ***Radoslav B. Chalakov - National defence college „G. S. Rakovski”, Comand and staff faculty, Sofia, Bulgaria***

INFLUENCE OF THE FIRE MAINTENANCE PLANNING METHOD IN OPERATIONS

12.00-12.15 ***Andrey I. Bogdanov - Konstantin Preslavski University Of Shumen***

MAKE OR BUY DECISIONS IN CONDITIONS OF COVID CRISIS

12.15-12.30 ***Genadiy Hinkov – National Military University***

Kaloyan A. Iliev - Faculty of Artillery, Air Defense and Communication and Information Systems

CAPABILITIES OF ANSYS WORKBENCH FOR DESIGNING AND OPTIMIZATION OF ELEMENTS OF CONSTRUCTION OF ARTILLERY SYSTEMS AND PROJECTILES

12.30-12.45 ***Yana D. Dimitrova – Air Defense and CIS Faculty, National Military University “Vasil Levski”, Shumen, Bulgaria***

STATISTICAL DATA ANALYSIS OF MATHEMATICAL MODEL FOR STUDY OF SILENCER'S TRIBOLOGICAL CHARACTERISTICS INFLUENCE ON SHOTS GROUPING

12.45-13.30 Question and discussion

13.30-14.30 Lunch break

14.30-16.30 Question and discussion

WORKGROUP SESSION

SECTION

COMMUNICATION AND COMPUTING TECHNOLOGIES

Chairman: LTC Assoc. Prof. Milena Lambeva, Ph.D.

Location: Room 08201, Blok 8, floor II

09.40-09.55 ***Valentin T. Atanasov – “Vasil Levski” National Military University, Faculty of Artillery, Air Defense and Communication and Information Systems***

MEASUREMENT AND ASSESSMENT OF EDUCATIONAL INTERACTIVITY IN WEB BASED LEARNING APPLICATIONS

09.55-10.10 ***Prof. D.Sc. Borislav Y. Bedzhev, Cap. Eng. Miroslav G. Nedelchev - Communication Networks and Systems Department, Artillery, Air Defense Communication and Information Systems Faculty, National Military University „V. Levski”***

AN APPROACH FOR APPLICATION THE INFORMATION ABOUT THE SPATIAL LOCATION OF USERS FOR IMPROVEMENT THE USAGE OF ELECTROMAGNETIC SPECTRUM

10.10-10.30 ***Kamen S. Kalchev – “G. S. Rakovski” National Defence College, Sofia***

INFLUENCE OF THE COMMUNICATION INFORMATION SYSTEM ON THE COMBAT CAPABILITIES OF MILITARY FORMATIONS

10.30-11.00 Coffee break

11.00-11.15 ***Manol P. Mlechenkov, Veselina A. Gagamova – Communication and Information Systems Chair, Rakovski National Defense College, Sofia, Bulgaria***

HISTORICAL EXPERIENCE FROM THE DEVELOPMENT OF THE MANAGEMENT SYSTEM AND THE COMMUNICATION SYSTEM OF THE BULGARIAN ARMED FORCES UNTIL 1945

11.15-11.45 ***Mihail A. Mihailov – Artillery, Air Defense Communication and Information Systems Faculty, National Military University „V. Levski”***

1. MODERN DEVELOPMENT OF TECHNOLOGIES WITH SPATIAL

MULTICHANNEL DISTRIBUTION OF SIGNALS

2. APPLICATION OF ANTENNA SYSTEMS WITH MULTIPLE
INPUTS AND OUTPUTS IN TECHNOLOGIES WITH SPATIAL
MULTICHANNEL DISTRIBUTION OF SIGNALS

<u>10.30-11.00</u>	Coffee break
<u>11.00-13.30</u>	Question and discussion
<u>13.30-14.30</u>	Lunch break
<u>14.30-16.30</u>	Question and discussion

WORKGROUP SESSION

SECTION

CYBERSECURITY

Chairman: Prof. D.Sc. Zhaneta Savova

Location: Room 25105, Block 25, floor I

09.40-09.55 *Yana E. Kolegova-Delcheva – Joint Forces Command*

MODELING OF CYBERSECURITY IN THE ARMED FORCES

09.55-10.10 *Pavel G. Gerasimov - Gate-92 DG – Intellekt TKG, Sevlievo-Sofia, Bulgaria*

APPLICATION OF MULTIAGENT SYSTEMS FOR THE PURPOSES OF CYBERSECURITY

10.10-10.30 *Danko D. Farazov - Joint Operations and Planning Department, National Defence College “G. S. Rakovski“, Sofia, Bulgaria*

1. EXAMINING THE EU'S MILITARY CAPABILITIES FOR CYBER DEFENCE
2. POSSIBILITIES FOR DEVELOPMENT OF ARTIFICIAL INTELLIGENCE IN DEFENSE

10.30-11.00 Coffee break

11.00-13.30 Question and discussion

13.30-14.30 Lunch break

14.30-16.30 Question and discussion

WORKGROUP SESSION SECTION

SOCIAL SCIENCE

Chairman: Prof. Veliko. P. Petrov, Ph.D.

Location: Room 25103, Block 25, floor I

- 09.40-09.55 *Valya M. Simeonova – Joint Forces Command*
LISTENING - AN IMPORTANT COMPONENT OF THE COMMUNICATION PROCESS
- 09.55-10.10 *Viktor T. Dobrev, Milena H. Lambeva - Faculty of Artillery, Air Defense and Communication and Information Systems, National Military University*
SCREENING STUDY OF NEUROPSYCHIATRIC RESILIENCE IN SIMULATED ISOLATION DEPRIVATION AS A CONSEQUENCE OF A DIFFUSE ATTACK IN A SIXTH GENERATION WAR
- 10.10-10.30 *Victor Dobrev – Faculty of Artillery, Air Defense and Communication and Information Systems, National Military University*
THEOCRATIC ARCHETYPE OF THE EUROPEAN POLITICAL MODEL
- 10.30-11.00 Coffee break
- 11.00-11.15 *Radoslav B. Chalakov – National defence college „G. S. Rakovski”, Comamand and staff faculty, Sofia*
ROTATION OF EMPLOYEES AS AN ELEMENT OF THEIR CAREER DEVELOPMENT
- 11.15-11.30 *Teodora P. Chalakova - Ministry of Difence of the Republic of Bulgaria*
GENERATIONAL THEORY – WHERE IT ALL STARTED
- 11.30-11.45 *Radoslav B. Chalakov – National difence college „G. S. Rakovski”, Comamand and staff faculty, Sofia*
Teodora P. Chalakova - Ministry of Difence of the Republic of Bulgaria
HUMAN CAPITAL AND ITS RETENTION - THE MOST IMPORTANT RESPONSIBILITY FOR ANY ORGANISATION
- 11.45-12.00 *Stancho G. Stanchev, Veliko P. Petrov - Faculty of Artillery, Air Defense and Communication and Information Systems, National Military University, Shumen, Bulgaria*
ORGANIZATIONAL CHANGE AND RESISTANCE

12.00-12.15 *Mariyana St. Todorova – Faculty of Artillery, Air Defense and Communication and Information Systems, National Military University, Shumen, Bulgaria*

Nelly-Maria Ant. Popova - Konstantin Preslavsky University of Shumen, Bulgaria

ENVIRONMENTAL MONITORING MANAGEMENT - A SOURCE OF REAL-TIME INFORMATION

12.15-13.30 Question and discussion

13.30-14.30 Lunch break

14.30-16.30 Question and discussion

WORKGROUP SESSION

STUDENTS' SECTION

Chairman: Assoc. Prof. Veselka T. Stoyanova, Ph.D.

Location: Room 25106, Block 25, floor I

- 09.40-09.55 *Ekaterina M. Konstantinova, Assoc. Prof. Eng. PhD Tsvetoslav S. Tsankov – Faculty of Technical Sciences at Konstantin Preslavsky University of Shumen, Bulgaria*
1. ANALYZING SECURITY THREATS IN SMART HOMES TECHNOLOGY
 2. CAPABILITIES FOR HIGH-SPEED DATA TRANSMISSION THROUGH THE USE OF VISIBLE LIGHT
- 09.55-10.10 *Viktor V. Lilov, Ekaterina M. Konstantinova, Assoc. Prof. Eng. PhD Tsvetoslav S. Tsankov – Faculty of Technical Sciences at Konstantin Preslavsky University of Shumen, Bulgaria*
- CYBER INTELLIGENCE IN PROTECTING ORGANIZATIONS FROM MALICIOUS ACTIVITY
- 10.10-10.30 *Miroslav E. Stoimenov - Artillery, Air Defense and CIS Faculty, National Military University “Vasil Levski”*
- HYPERSONIC WEAPONS, WORKING PRINCIPLE AND APPLICATIONS
- 10.30-11.00 Coffee break
- 11.00-11.15 *Damna S. Ahmedova, Ekaterina M. Konstantinova, Assoc. Prof. Eng. PhD Tsvetoslav S. Tsankov - Faculty of Technical Sciences at Konstantin Preslavsky –University of Shumen, Bulgaria*
- THE USE OF PACKET SNIFFING TOOLS IN COMPUTER NETWORKS SECURITY
- 11.15-11.30 *Stela D. Mincheva - National Academy of Art , Sofia*
- OPPORTUNITIES FOR MANAGEMENT WITH THE HELP OF A VIRTUAL VOICE ASSISTANT
- 11.30-11.45 *Marina R. Monova – Artillery, Air Defense and CIS Faculty, National Military University “Vasil Levski”*

INNOVATIVE TYPES OF AMMUNITION FOR SMALL ARMS

- 11.45-12.00 ***Rosica K. Pencheva – Artillery, Air Defense and CIS Faculty,
National Military University “Vasil Levski”***
GRANADE LAUNCHER BULSPIKE-AP WITH FRAGMENTATION
GRANADE OG-22M
- 12.00-12.15 ***Angel I. Matsurev – Artillery, Air Defense and CIS Faculty,
National Military University “Vasil Levski”***
CYBER-PHYSICAL SYSTEM, CONCEPTUAL AND PHYSICAL
MODEL OF "SMART HOME"
- 12.15-13.30 Question and discussion
- 13.30-14.30 Lunch break
- 14.30-16.30 Question and discussion