



■ **3-я МЕЖДУНАРОДНАЯ  
НАУЧНАЯ КОНФЕРЕНЦИЯ**  
по военно-техническим проблемам,  
проблемам обороны и безопасности,  
использованию технологий  
двойного применения

**23–24 мая 2007 г.  
г. Минск**

**ПРОГРАММА-ПРИГЛАШЕНИЕ**

■ **3rd INTERNATIONAL  
SCIENTIFIC CONFERENCE**  
for military and technical issues,  
defence and security problems,  
application of double-purpose  
technologies

**May 23–24, 2007  
Minsk**

**PROGRAMME**



**3rd INTERNATIONAL  
SCIENTIFIC CONFERENCE  
for military and technical issues, defence  
and security problems, application  
of double-purpose technologies**

**May 23–24, 2007**

**Minsk, Belarus**

**Conference-room  
of the hotel “Belarus”  
Storozhevskaya str., 15  
Minsk, Belarus**

**PROGRAMME–  
INVITATION**

**ORGANIZERS**

The State Military-Industrial Committee  
of the Republic of Belarus

The Belarusian Institute of System Analysis and Information  
Support for Scientific and Technical Sphere

**BY THE INSTRUMENTALITY OF**

The State Secretariat of Security Council

Ministry of Defence

Ministry of Internal Affairs

Ministry of Industry

Ministry of Foreign Affairs

Ministry of Trade

Ministry of Education

The State Security Committee

The State Customs Committee

The State Committee on Science and Technologies

The National Academy of Sciences of the Republic of Belarus

Minsk City Executive Committee

## ORGANIZING COMMITTEE

### Leader:

**Valeriy E. Kratenok**, Director of the Belarusian Institute of System Analysis and Information Support for Scientific and Technical Sphere

### Deputies:

**Sergey K. Turbin**, Acting of Deputy Chairman of the State Secretariat of Security Council;

**Oleg S. Hat'ko**, Deputy Governance Chief, Head of Department of the State Secretariat of Security Council

### Members:

**Andrey E. Moskalevich**, Consultant of Department of the State Secretariat of Security Council;

**Sergey A. Savenko**, Director of the Scientific-Research Institute of the Armed Forces of the Republic of Belarus;

**Alexander A. Pet'kov**,  
Head of 1034th CMR of AF and AD;

**Vasily M. Bulovichik**, Chief of Sub-Faculty of the Military Academy of the Republic of Belarus;

**Ivan M. Kosachiov**, Chief of the Scientific Research Laboratory of the Military Academy of the Republic of Belarus;

**Nikolai M. Slusar'**, Professor of Sub-Faculty of the Military Academy of the Republic of Belarus;

**Igor M. Bykov**, Deputy Chairman for Science of Joint Staff of Armed Forces of the Republic of Belarus;

**Vitaly I. Stetsurenko**, Chief of Department of the United Institute of Informatics Problems of the National Academy of Sciences of the Republic of Belarus;

**Igor E. Zuikov**, Chief of Sub-Faculty of the Belorussian National Technical University;

**Valentin V. Murav'ev**, Chief of Sub-Faculty of the Belorussian State University of Informatics and Radio Electronics;

**Leonid M. Lyn'kov**, Chief of Sub-Faculty of the Belorussian State University of Informatics and Radio Electronics;

**Serghei M. Kostromitsky**, Director of RUE "KB Radar";

**Serghei G. Kotov**, Deputy Chief of the Scientific-Research Institute of Fire-Fighting Security and Emergency Problems;

**Alexander P. Patskevich**, Associate Professor of the Academy of Ministry of Internal Affairs of the Republic of Belarus

## CONFERENCE GOAL

To analyze the problems of scientific and engineering research, R&D activities in the interests of new technologies and materials, equipment and devices intended for defense and security, the ways to develop and intensify high-tech productions to enhance scientific and technical potential in the Republic of Belarus, to create new conditions for tightened military engineering collaboration, integration and cooperation with the close neighboring and other foreign states in the key areas of defence industry.

## KEY SUBJECTS

- Military engineering aspects of defense and security, interaction and control of army-related components in national defense systems under war conflicts and non-military actions;
- Development of military engineering collaboration in line with a common and comprehensive security concept;
- Scientific and technical grounds for novel defense technologies, armament and defense systems; design and implementation of advanced defense and dual-use technologies;
- Reconnaissance, control and destruction means;
- Means and methods of protection for army personnel and economic sites;
- Information technologies and computer-aided systems for troops and weapon controls, information protection systems;
- Specific technical safety means; anti-terror equipment and techniques;
- Upgrade and repair of materiel, armament utilization;
- Means and technologies for emergency situations prevention and elimination;
- Standardization, certification and metrology in defense and dual-use products.

## **SCHEDULE**

**May 23, 2007**

**Conference-room of the hotel “Belarus”**

- 09.00 – 10.00 **REGISTRATION OF THE PARTICIPANTS**
- 10.00 – 10.20 **OPENING OF THE CONFERENCE**
- 10.20 – 14.00 **PLENARY MEETING**
- 14.00 – 15.00 **LUNCH BREAK**

## **SECTIONAL MEETINGS**

**May 23, 2007**

**Conference-room of the hotel “Belarus”**

- 15.00 – 18.00 Section 1. Scientific and technical basis for new and defence technologies, armament systems and military hardware and equipment

**May 24, 2007**

**Conference-room of the hotel “Belarus”**

- 09.30 – 13.30 Section 2. Actual problems of military-technical politics
- 14.30 – 17.00 Section 4. Automated Control Systems for troops and weapons command and control. Information protection systems

**Small hall of the hotel “Belarus”**

- 09.30 – 13.30 Section 3. Modernization, operation and reconditioning of armament and military hardware and equipment. Problems of utilization of armament and military hardware
- 14.30 – 17.00 Section 5. Protection against emergency situations at peace and war time. Military education
- 13.30 – 14.30 Lunch break

**Conference-room of the hotel “Belarus”**

- 17.00 – 18.00 Summing-up, closing ceremony

## PLENARY MEETING

May 23, 2007, 10.00 – 14.00

### Conference-room of the hotel “Belarus”

#### Presiding persons:

**Sergey K. Turbin**, Acting of Deputy Chairman of the State Secretariat of Security Council

**Valeriy E. Kratenok**, Director of the Belarusian Institute of System Analysis and Information Support for Scientific and Technical Sphere

09.00 – 10.00 Registration of the participants

10.00 – 10.10 Opening of the conference

**S. Turbin**, Acting of Deputy Chairman of the State Secretariat of Security Council

10.10 – 10.30 Modern World Tendencies of Development of Armament and Military Technique

**S. Turbin**, Acting of Deputy Chairman of the State Secretariat of Security Council

10.30 – 10.50 The Methodological Approach to Assessment of Military and Economical Security of the State: Maxims, Principles, Criteria and Their Threshold Importance

**V. Dernovoi**, Chief of Main Department of Ministry of Economy of the Republic of Belarus

10.50 – 11.10 The Development of Military and Technical Collaboration of CIS for Guaranteeing of Security

**N. Shvets**, Assistant General Director of FSUE “Rosoboronexport”

11.10 – 11.30 Condition and Perspectives of Development of Dual-Application Technologies in NAS of Belarus

**P. Vit'az'**, First Deputy of President of Presidium of NAS of Belarus

- 11.30 – 11.50 Current Situation And Development of the Dual-Application Measurement Equipment  
S. Zdorovtsev, Joint Stock Company "MNIPI"
- 11.50 – 12.10 Perspectives of Development of Microelectronics Within the Bounds of the Programme of the Union State "Functional Microwave Frequency Electronics"  
A. Grinchuk, Director of Minsk Research Institute of Radiomaterials
- 12.10 – 12.30 Coffee Break
- 12.30 – 12.50 Problems of Economic and Information Safety of Military-Technical Cooperation of the Russian Federation with the Foreign States  
V. Kruk, FSUE "Rosoboronexport"
- 12.50 – 13.10 Perspectives of Development of unmanned aircrafts  
Yu. Chahovskyi, General Director of Minsk Aircraft Repair and Overhaul Plant
- 13.10 – 13.30 Creation of the System of Navigation Ensuring of the Republic of Belarus  
A. Demyaninko, Director of UE "SKB Kamerton"
- 13.30 – 14.00 Reply answers and discussion of the results of plenary meetings
- 14.00 – 15.00 Lunch break

## TIME-LIMIT OF MEETINGS IN SECTIONS

May 23, 2007, 15.00 – 18.00

**Conference-room of the hotel “Belarus”**

### **SECTION 1. SCIENTIFIC AND TECHNICAL BASIS FOR NEW AND DEFENCE TECHNOLOGIES, ARMAMENT SYSTEMS AND MILITARY HARDWARE AND EQUIPMENT**

Leader of the section — Deputy Chairman  
for Science of Joint Staff of Armed Forces  
of the Republic of Belarus **I. Bykov**

- 15.00 – 15.15 “Vostok” VHF Band Mobile Solid State  
Surveillance Radar  
S.M. Kostromitsky, I.S. Sadovsky,  
P.N. Shumsky,  
Research-and-production republican unitary  
enterprise “DB Radar”
- 15.15 – 15.30 Millimeter-Wave Multibeam Surveillance  
Radar  
N.M. Naumovich, V.V. Muraviev,  
S.A. Korenevskij, O.L. Karpovich, P.V. Smirnov,  
Belarusian State University of Informatics  
and Radio Electronics
- 15.30 – 15.45 Shungite-Containing Flexible Knitted  
Fabric Based Radar Absorbing Material  
E. Krishtopova, T. Borbotko,  
Belarusian State University of Informatics  
and radioelectronics
- 15.45 – 15.55 Electroless Technology for Synthesis  
of Composite Metallic Radioabsorbing  
Nanomaterials  
L. Nikiforenko, V. Bogush, L. Lynkov,  
Belarusian State University of Informatics  
and Radio Electronics
- 15.55 – 16.05 Powder Water-Containing Materials  
for Integrated Protection Panels  
S. Petrov, L. Lynkov, Sui Cidzun,  
Belarusian State University of Informatics  
and Radio Electronics



- 16.05 – 16.15 **Radar Absorbing Composites for Reducing Weapons and Arms Radar Detection**  
V. Sokolov,  
Belarusian State University of Informatics  
and Radio Electronics
- 16.15 – 16.30 **Coffee break**
- 16.30 – 16.45 **The Mockup of Zenithal Rocket System S-300P**  
A. Talanov,  
Scientific Production Association "Rusbal"
- 16.45 – 17.00 **Millimeter-Wave Wideband Omnidirectional Antenna**  
N.M. Naumovich, O.A. Yurtsev, I.V. Veretennikov,  
A.V. Bartsevich, S.A. Chekan,  
Belarusian State University of Informatics  
and Radio Electronics
- 17.00 – 17.10 **Millimeter-Wave Monopulse Antenna**  
N.M. Naumovich, O.A. Yurtsev,  
T.V. Shukevich, E.A. Picta, P.V. Smirnov,  
Belarusian State University of Informatics  
and Radio Electronics
- 17.10 – 17.20 **Spatial Simulation Mathematical Model of Circle of Radio Guided Missile of Small-Range Air Defense Complex**  
D. Morozov, O. Lapuka,  
Military Academy of the Republic of Belarus
- 17.20 – 17.30 **Cherenkov's Oscillators of Ultra-High Power for System of ARD and AAD of New Generation**  
M.P. Batura, A.A. Kuraev, I.V. Lushchitskaja,  
A.K. Sinitsyn,  
Belarusian State University of Informatics  
and Radio Electronics
- 17.30 – 18.00 **Reply questions and discussing of the results of the section**

May 24, 2007, 9.00 – 13.30

**Conference-room of the hotel “Belarus”**

## **SECTION 2. ACTUAL PROBLEMS OF MILITARY-TECHNICAL POLITICS**

Leader of the section — Acting of Deputy Chairman of the State Secretariat of Security Council **S. Turbin**

- 09.00 – 10.00 Registration of the participants
- 10.00 – 10.30 Application of System Analysis for Assessment of Military Command Unit Realizing Computer Forms of Efficient Training  
F. Kolomoets,  
State Republic of Belarus Armed Forces  
Research Institute
- 10.30 – 10.50 Assessment of Effectiveness of Forming of Intergovernmental Strategic Alliances in Indeterminacy  
G. Kolesnik, G. Shugaev,  
FSUE “Rosoboronexport”
- 10.50 – 11.10 Diversity of Scientific-Technical and Innovation Activity As Basis of Effective Strategical Menegment of Holding Company  
D. Manturov, N. Turko,  
FSUE “Rosoboronexport”
- 11.10 – 11.30 Organizational Approaches to Protection of Economic Interests of Subjects of Economic Activities During the Carry-ing Out of International Exhibitions  
S. Pogromskiy,  
FSUE “Rosoboronexport”
- 11.30 – 11.45 Coffee break
- 11.45 – 12.05 Formation of the System of Measures on Struggle against Unfair Competition  
S. Pogromskiy, V. Kruk,  
FSUE “Rosoboronexport”

- 12.05 – 12.25 Marketing Planning by Realization of Military and Technical Collaboration With Foreign States  
S. Svechnikov, A. Kr'ukov,  
FSUE "Rosoboronexport"
- 12.25 – 12.55 Synergetic Resource in Context of Optimization of Strategy for Advancement of Military Production to World Market  
D. Shugaev, S. Chemezov,  
FSUE "Rosoboronexport"
- 12.55 – 13.15 Perspective Ways of Development of Aircraft's Self-Protection Means Against Radio-Frequency Guided Weapons  
I. Kozubov, O. Lapuka,  
Military Academy of the Republic of Belarus
- 13.15 – 13.30 Reply questions and discussing of the results of the section
- 13.30 – 14.30 Lunch break

May 24, 2007, 9.00 – 13.30

Small hall of the hotel “Belarus”

**SECTION 3. MODERNIZATION, OPERATION  
AND RECONDITIONING OF ARMAMENT AND  
MILITARY HARDWARE AND EQUIPMENT.  
PROBLEMS OF UTILIZATION OF ARMAMENT  
AND MILITARY HARDWARE**

Leader of the section — Director of the Scientific-  
Research Institute of the Armed Forces  
of the Republic of Belarus **S. Savenko**

- 10.00 – 10.15 Electromagnetic Defence of Personnel  
and Radar Camouflage of Military  
Objects Using Polymer Radioabsorbing  
Materials  
V.A. Bannyi, V.A. Belyi,  
Metal-Polymer Research Institute of National  
Academy of Sciences of Belarus
- 10.15 – 10.30 Not Destroying Control of Various  
Designs Over Ground Penetrating Radars  
A. Grunkevich, S. Savenko, N. Vasilin,  
A. Gurinovich,  
State Republic of Belarus Armed Forces  
Research Institute
- 10.30 – 10.45 Quality Management for Restructuring  
of the Multisectoral Enterprise  
V. Koreshkov, N. Kusakin, M. Heifets,  
T. Alekseeva,  
State Standard of the Republic of Belarus,  
Polotsk State University
- 10.45 – 11.00 Perspective Directions and Offers  
for Improvement of the System of Long-  
Term Storage of Military Engineering  
N. Liseichikov, V. Piskun,  
State Republic of Belarus Armed Forces  
Research Institute
- 11.00 – 11.15 Designing of Scientific and Technical  
Decisions for Update of Technical  
Levels of Four-Wheel Drive Vehicles  
G. Man'shin, C. Drobysheskiy,  
A. Markovskiy, A. Smol'skiy, V. Tihomirov,  
The United Institute of Mechanical Engineering  
of NAS of Belarus

- 11.15 – 11.30 Range of Minsk Wheel Tractor Plant  
Military Products  
Y. Nikolaev, Minsk Wheel Tractor Plant
- 11.30 – 11.45 Coffee break
- 11.45 – 12.00 Particularities of the Life Cycle  
of the Electronic Equipment of Military  
Technics  
U. Semak, State Republic of Belarus Armed  
Forces Research Institute
- 12.00 – 12.15 The Creation of the Perspective Optical  
Electronic Equipment of Remote Probing  
of Earth  
D. Sikorskyi, Public Corporation "Peleng"
- 12.15 – 12.30 Certain Problem Questions Using  
of Digital Transmission System  
By Armed Forces Cable Telecommuni-  
cations  
L. Utin, State Republic of Belarus Armed Forces  
Research Institute
- 12.30 – 12.45 The Perspective Directions of Moderni-  
zation of the Mobile Radio Altimeters  
G. Hal'kov,  
The Research Institute of Computer Machinery
- 12.45 – 12.55 Experience of Complex Repairs  
of the Surface of Brass Details By Laser  
Building-Up, Multiple Copper Coating  
with Next Following Chromium-Plating  
S. Yurkevich, T. Polyakova, N. Kabataev,  
N. Kuhta, A. Tomashevich,  
558th Aircraft Repair Plant
- 12.55 – 13.05 Renewal of Aviation Engineering Details  
Copper Alloy with Dotted and Local  
Malfunction by Laser Building-Up  
S. Yurkevich, A. Tomashevich, A. Yurkevich,  
558th Aircraft Repair Plant
- 13.05 – 13.15 Modernization of Engines of Military  
Destination  
N. Yankevich, D. Yastremsky, A. Stakhievich,  
Joint Institute of Mechanical Engineering  
of the National Academy of Sciences
- 13.15 – 13.30 Reply questions and discussing  
of the results of the section
- 13.30 – 14.30 Lunch break

May 24, 2007, 14.30 – 17.00

**Conference-room of the hotel “Belarus”**

**SECTION 4. AUTOMATED CONTROL SYSTEMS  
FOR TROOPS AND WEAPONS COMMAND AND  
CONTROL. INFORMATION PROTECTION  
SYSTEMS**

Leader of the section — Chief of Sub-Faculty  
of the Military Academy of the Republic  
of Belarus **V. Buloichik**

- 14.30 – 14.40 The Methodological Foundation  
of the Creation of the Allocated Auto-  
mated Control Systems and Bonds  
in Defend Implementation  
Yu. Borodakyi, A. Dobrodeev, S. Korotkov,  
I. Bedarev,  
Concern “Systemprom”
- 14.40 – 14.50 Metodological Fundamentals  
of Construction High-Precision Weapons  
Counteraction Integrated System  
V.V. Bondarenko, A.N. Semashko,  
State Republic of Belarus Armed Forces  
Research Institute
- 14.50 – 15.00 The Mathematical and Software Routine  
for the Centre of Situational Military  
Modelling  
V. Buloichik, A. Gertsev, A. Buloichik,  
Military Academy of the Republic of Belarus
- 15.00 – 15.10 The Structure of Perspective Model  
of Communications  
V. Berikbaev, S. Prokopov,  
Military Academy of the Republic of Belarus
- 15.10 – 15.20 The Designing of Imitating Model of  
Sub-Unit of Electronic Warfare  
V. Berikbaev, I. Komarov, Military Academy  
of the Republic of Belarus
- 15.20 – 15.30 Elements of Supporting of Decision  
Making in Military Geoinformation  
Systems  
V. Buloichik, D. Skripko,  
Military Academy of the Republic of Belarus

- 15.30 – 15.40 Simulation of Neural Nets Simplicity Measure and Generalization Capability  
S. Vatlin, SO "BellSA"
- 15.40 – 15.50 Estimation of Information Safety the Automated Control Systems  
A. Bakurenko,  
Military Academy of the Republic of Belarus
- 15.50 – 16.00 Computer Simulators of Communications Facilities  
V. Piskun, S. Kasanin,  
State Republic of Belarus Armed Forces Research Institute
- 16.00 – 16.15 Coffee break
- 16.15 – 16.30 The Information Subsystem Development of the Automated and Controlled Systems of the Air Defense Forces  
S.V. Potetenko,  
Military Academy of the Republic of Belarus
- 16.30 – 16.40 The Methods of Performance Evaluation of Functioning of State Military Organization System  
B. Vervevko, S. Gul'bis,  
State Republic of Belarus Armed Forces Research Institute
- 16.40 – 16.50 Problems and Perspectives of Development of Modelling Systems  
V. Gertsev, V. Bulovichik, A. Gertsev,  
PC "Belfortex"
- 16.50 – 17.00 Hardware-Software Complex of Reception and the Analysis of the Spectral-Polarizing Images, Based on Processing Videogiven by Neural Networks and Fuzzy Methods of Automatic Classification  
A.V. Hizhnyak, A.V. Shevyakov, V.V. Moiseev, I.L. Syomchenko,  
Military Academy of the Republic of Belarus
- 17.00 – 17.15 Reply questions and discussing of the results of the section

May 24, 2007, 14.30 – 17.00

**Small hall of the hotel “Belarus”**

**SECTION 5. PROTECTION AGAINST  
EMERGENCY SITUATIONS AT PEACE AND  
WAR TIME. MILITARY EDUCATION**

Leader of the section — Deputy Chief  
of the Scientific-Research Institute  
of Fire-Fighting Security and Emergency  
Problems **S. Kotov**

- 14.30 – 14.45 Training of Scientific Personnel of Fine Qualifications in the Republic of Belarus for Military and Policing Branch of Government  
I. Voytov,  
The State Committee on Science and Technologies Republic of Belarus
- 14.45 – 15.00 Mobile Multiwave Complexes for Ecology and Security  
A.S. Boreysho, K.A. Konyaev, A.V. Morozov,  
A.V. Pikulik, A.V. Savin, A.B. Trilis,  
K.A. Konovalov, A.V. Belov,  
Laser Systems Ltd.
- 15.00 – 15.15 Laser Systems of Atmospheric Pollution Control in Regions of Chemically Dangerous Objects Allocation  
T.G. Gabrichidze, V.V. Batyrev, I.M. Yannikov,  
Laser Systems Ltd.
- 15.15 – 15.30 The Dirt Wind Transfer Modeling By Emergency Situations  
V. Katkov,  
The United Institute of the Informatics Problems of NAS of the Republic of Belarus
- 15.30 – 15.45 The Lighting in Emergency Situations  
A. Kirilenko,  
Minsk State Higher Aviation College
- 15.45 – 16.00 Perfection of Medical Supply Medical Army Formations  
I. Burak, N. Roshchin, V. Rednenko,  
Vitebsk State Medical University
- 16.00 – 16.15 Coffee break



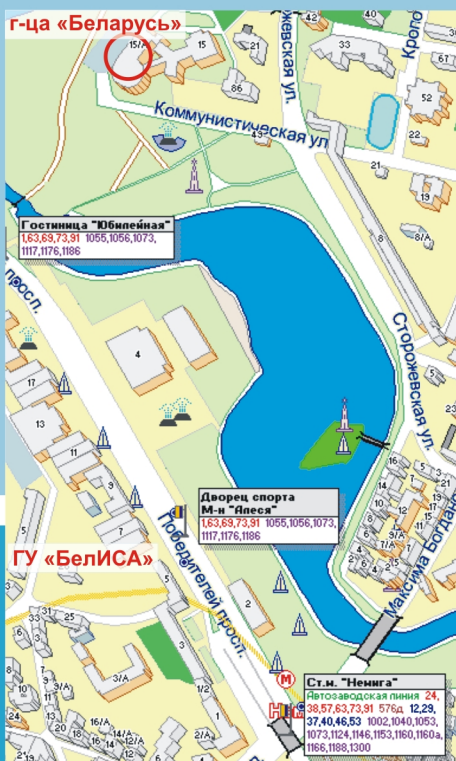
- 16.15 – 16.30    **Software and Hardware Complex of Registration of Medical Information in Military Medical Formations**  
V. Taller, V. Rednenko, V. Kviatkouski,  
A. Filanovich,  
Vitebsk State Medical University
- 16.30 – 16.40    **The Estimation of the Functional Condition of the Future Pilots on the Basis of Tool and Biochemical Monitoring in Conditions of Altitude Anoxia**  
V. Rednenko, A. Nicolaeva, A. Oladko,  
E. Poplavets,  
Vitebsk State Medical University
- 16.40 – 16.50    **The Ways of Improvement of Military Education Control System**  
Yu. Fomichev, I. Zinevich,  
Military Academy of the Republic of Belarus
- 16.50 – 17.00    **The Ways of Improvement of Advanced Studies of Military Medical Cadres at the Present Stage**  
S. Shnitko,  
The Belarusian State Medical University
- 17.00 – 17.15    **Reply questions and discussing of the results of the section**

May 24, 2007, 17.00 – 18.00

**Conference-room of the hotel “Belarus”**

**SUMMING-UP,  
CLOSING CEREMONY**

Проезд: автобусами № 1, 63, 69, 73, 91 — до остановки «Гостиница Юбилейная»; метро — до станции «Немига».



Место проведения:  
конференц-зал гостиничного комплекса «Беларусь»  
(ул. Сторожевская, 15, г. Минск)

Отель «Беларусь» расположен в историческом  
центре г. Минска, на берегу реки Свислочь.



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