

INTERNATIONAL CIVIL AVIATION ORGANIZATION
NATIONAL ACADEMY OF SCIENCES OF UKRAINE
MINISTRY OF EDUCATION AND SCIENCE,
YOUTH AND SPORT OF UKRAINE
NATIONAL AVIATION UNIVERSITY

PROGRAM

**THE FIFTH WORLD CONGRESS
“AVIATION IN THE XXI-st CENTURY”**

**Safety in Aviation
And Space Technologies**

September 25-27, 2012

KYIV

COFOUNDER

- National Aviation Academy State “Azerbaijan Hava Yollari” Closed Joint-Stock Company, Azerbaijan
- Georgian Aviation University, Georgia
- JSC “Civil Aviation Academy”, Kazakhstan
- Nanchang Hangkong University, China
- Vilnius Gediminas Technical University, Lithuania
- The State School of Higher Education in Chelm, Poland
- Moscow State Technical University of Civil Aviation, Russia
- The International University of Logistics and Transport in Wroclaw, Poland
- Polish – Ukrainian Research Institute, Poland-Ukraine

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The Fifth World Congress

“AVIATION IN THE XXI-st CENTURY” Safety in Aviation and Space Technologies

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SCHEDULE
of the fifth world congress
“AVIATION IN THE XXI-st CENTURY”
Safety in Aviation and Space Technology

25.09.2012

8.00-10.00	Registration of participants
10.00-12.40	Plenary session
13.00-18.00	City and river tour

26.09.2012

9.00-13.00	Symposia sessions, Round table discussion ICAO
13.00-14.00	Lunch
14.15-18.00	Symposia sessions

27.09.2012

9.00 – 16.45	Roundtable “Future perspectives of EGNOS and GNSS technologies in Ukraine”
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PLENARY SESSION

25 September, 10:00

- 10:00-11:00 **Raymond Benjamin**, Secretary General of ICAO (video-greeting)
Maksym Lutskiy, Chairman of the Verkhovna Rada of Ukraine Committee on Science and Education, Ukraine.
Volodymyr Kharchenko, Vice-Rector on Scientific-Research Work, National Aviation University, Ukraine.
Oleksander Grechko, First Deputy of the Head of the State Aviation Administration of Ukraine
Vasyl Deyneka, Academician-secretary of the Computer Science Department of NAS Ukraine
Jozef Zajac, Rector of the State School of Higher Education in Chelm, Senator of the Polish Parliament, Poland.
Janus Paweska, Chancellor of the International of Logistics and Transport in Wroclaw, Director of Polish-Ukrainian Research Institute, Poland.
Lezek Cwojdzinski, Director of the Armament Policy Department of Ministry of National Defense Republic of Poland.
Sergo Tepnadze, Rector, Tbilisi Aviation University, Georgia
- 11:00-11:10 Problems of development of civil aviation.
Mykola Kulyk, Rector, National Aviation University, Ukraine.
- 11:10-11:25 ICAO Safety Initiatives.
Luis Fonseca de Almeida, Regional Director of the European / North Atlantic Office of ICAO.
- 11:25-11:40 ECAC's role in promotion of aviation safety, and security and environment in the European region.
Salvatore Sciacchitano, Executive Secretary of ECAC (European Civil Aviation Conference).
- 11:40-11:55 Target and Weather Surveillance for Air Traffic Management: the role of research and some activities at Tor Vergata University.
Gaspare Galati, Tor Vergata University, Italy.
- 11:55-12:10 Role of English in modern aviation
Simon Cook, MLS International College, UK
- 12:10-12:25 Status and development of the space industry of Ukraine.
Sergiy Jenchevsky, Special Programs Department of the State Space Agency of Ukraine.

SYMPOSIUM 1
MODERN SPACE AND AVIATION TECHNOLOGIES

1.1. Latest technologies for maintaining aircraft airworthiness

Chairman - **S.O. Dmitryev**, National Aviation University, Ukraine

Secretary - **E.A Sapeliuk**, National Aviation University, Ukraine

26 September, 10⁰⁰,
room 11.229.

1. Management processes of technical operation of complex object in condition with fuzzy source information.

V.I. Burlakov, O.V. Popov, D.V. Popov, National Aviation University, Ukraine.

2. Calculation-experimental method of shell structures life estimation.

M.N. Regulsky, A.D. Pogrebniak, S.P. Tymoshenko Institute of Mechanics, NAS, Ukraine.

O.I. Yurchenko, O.S. Tugarinov, National Aviation University, Ukraine.

3. Forming of Installers for airline's fleet reliability control automated system.

A.A Tamargazin, O.S. Yakushenko, P.O Vlasenko, National Aviation University, Ukraine.

4. Transient process optimization of pressure stabilization of axial piston pump.

V.S. Boutko, National Aviation University, Ukraine.

5. The increasing of tribotechnic connections resource of aerotechics by the method of detonation spraying.

O. Sydorenko, V. Variukhno, E. Evsyukov, National Aviation University, Ukraine.

6. The problem of keep of the aircraft park airworthiness in the processes of their operation in airlines.

A. Tamargazin, I. Linnik, M. Oleg, T. Kramarenko, National Aviation University, Ukraine.

7. Vibration and balancing of airplanes aircraft propellers by linear and nonlinear correlations.

V.P. Royzman, Khmelnytsky National University, Ukraine.

8. The full-sized test-bench for diagnostics and purification of aviation fuel.

S. Puzik, A. Hvozdetskyi, O. Puzik, B. Ostrovskyi, National Aviation University, Ukraine.

9. Fuzzy model of assessment of the efficiency of information sources in the frame of an aircraft gas turbine engine operational space.

L.A. Zhuravlova, E.A. Sapeliuk, National Aviation University, Ukraine.

10. Methodological aspects of performance reserves choice of small solenoid valves.

U.N. Rikunich, A.E. Sitnikov, E.I. Barilyuk, Public Company «Kiev Central Bureau of Valve Design», Ukraine.

H.I. Zayonchkovskiy, National Aviation University, Ukraine.

11. Modeling of an aircraft maintenance department capacity.

L.A. Zhuravlova, V.V. Matsuk, A.V. Plakhotnuk, National Aviation University, Ukraine.

12. Estimation of modification activation energy "IIX15" in fuel aviation" TC-1".

A.I. Bogdanovych, National Aviation University, Ukraine.

1.2. Fatigue and fracture of aircraft structures

Chairmen – **S. Ignatovich**, National Aviation University, Ukraine.

Secretary – **T. Maslak**, National Aviation University, Ukraine.

26 September, 9⁰⁰,
room 11.220.

1. Application of the light microscopy and atomic force microscopy for quantitative fatigue damage assessment.

S.R. Ignatovich, M.V. Karuskevich, T.P. Maslak, National Aviation University, Ukraine.

Jean-Bernard Vogt, Ingrid Serre, University Lille 1, France.

2. Structural health monitoring of aircraft in operation.

S.R. Ignatovich, M.V. Karuskevich, National Aviation University, Ukraine.

N.I. Bouraou, National Technical University KPI, Ukraine.

3. Destruction of aviation engine elements of composite materials at impact loads.

V.V. Astanin, O.A. Tamargazin, O.I. Olefir, G.O. Shchegel, National Aviation University, Ukraine.

4. Aspects of metal fatigue process under two-block loading tests.

A.I. Radchenko, S.S. Yutskevych, V.M. Panteleev, National Aviation University, Ukraine.

5. Shaping machine of high resourced pipeline elements.

O.M. Boltenkova, Voronezh State University of Engineering Technology, Russia.

1.3. Aerodynamics and flight safety

Chairman – **S. Ischenko**, National Aviation University, Ukraine.

Secretary – **A. Bondar**, National Aviation University, Ukraine.

26 September, 10⁰⁰,
room 9.207.

1. Entropy approach to the atmospheric turbulence analyses.
N.I. Delas, V.A. Kasyanov, T.V. Shypytiak, National Aviation University, Ukraine.
2. The organized vortex formation at the edges of the wing as a way to improve the aerodynamic characteristics at subsonic speeds.
E. Udarcsev, O. Shcherbonos, S. Alekseenko, National Aviation University, Ukraine.
3. Optimization of Aerodynamic facility for interdisciplinary research
N. Yurchenko, P. Vynogradskyy, Yu. Paramonov, V. Tsymbal, A.Koshil, K. Kuzmenko, Institute of Hydromechanics NASU, Ukraine. R. Pavlovskyy, A. Zhdanov, National Aviation University, Ukraine.
4. Microwave-induced streamwise vortex generation in aerodynamic complex for interdisciplinary researches.
N. Yurchenko, P. Vynogradskyy, K. Kuzmenko, Institute of Hydromechanics, Ukraine. R. Pavlovskyy, A. Zhdanov, National Aviation University, Ukraine.
5. Heat pump with the mobius screw.
L.I. Grechykhyn, Minsk State Higher Aviation College, Minsk, Belarus. N.G. Kuts, Lutsk National Technical University, Lutsk, Ukraine.
6. General aerodynamics.
L.I. Grechikhin, A.A. Laptzevitch, State Air Force College, Minsk, Republic of Belarus.
7. Evaluation of the stability derivatives in a longitudinal, lateral and transverse motion of the unmanned aerial vehicle in the curvilinear

flight with rotation.

A.V. Bondar, E.S. Plakhotniuk, National Aviation University, Ukraine.

8. Scientific basis for interaction of pilot with flight parameters indication system at the aircraft handling.

I.B. Kuznetsov, "Training center" St. Petersburg, Russia.

9. The energy estimation of the biot-savart law for the aerodynamic problems.

V. Zhila, National Aviation University, Ukraine.

10. Force cueing for pilot training.

V.V. Kabanyachyi, National Aviation University, Ukraine.

11. Safety in terms of subjective analysis.

T.V. Shyptiak, National Aviation University, Ukraine.

12. Experimental investigation of a variable geometry ducted propeller.

Piotr Strzelczyk, DSc. Eng. Rzeszow University of Technology, Poland.

Tomasz Muszyński, MSc. Eng. Technical Sciences of PWSZ in Chelm, Poland.

13. Issue of icing in aviation. Study with use of numerical simulation.

K. Grzegorzczak, D. Galas, E. Wajszczak, Institute of Aviation Warsaw, The State School of Higher Education in Chelm, Poland.

1.4. Modern tribotechnologies in aircraft and general purpose mechanical engineering

Chairman – **M. Kindrachuk**, National Aviation University, Ukraine.

Secretary – **O. Tisov**, National Aviation University, Ukraine.

26 September, 13³⁰,
room 2.312

1. Renewal tribomagnetic mechanism with paramagnetic modifier using.

A.P. Kudrin, M.N. Svirid, L.B. Pryimak, National Aviation University, Ukraine.

2. Friction pair tribomagnetic properties in the evenly directed magnetic field.

M.N. Svirid, V.V. Lubjanij, G.A. Volosovich, National Aviation University, Ukraine.

E. Waise, Technical University in Kielce, Poland.

3. Wear application of Co-TiC cemented carbides for gas turbines.

M.V. Kindrachuk, O.V. Tisov, National Aviation University, Ukraine.

4. Micro crack propagation behavior in aluminium alloy Д-16АТ.

O.V. Bashta, National Aviation University, Ukraine

5. On contact surface (nano) indentation tangential displacements theoretical accounting.

V.M. Kindrachuk, Federal Institute for Materials Research and Testing, Berlin, Germany.

B.A. Galanov, V.V. Kartuzov, Frantzevich Institute for Problems of Materials Science, Kyiv, Ukraine.

M.V. Kindrachuk, National Aviation University, Kiev, Ukraine.

6. Structure of composite electrolytic coatings with eutectic filler designed for operation at elevated temperatures.

A.A. Kornienko, S.V. Fedorchuk, National Aviation University, Ukraine.

7. Bifurcational loss of stability of underlayments of friction at quasistatic loads.

V. Kravtsov, M. Sadegy, National Aviation University, Ukraine.

8. Mechanism of gradual and sudden failures of friction knots.

A.P. Danilov, National Aviation University, Ukraine.

9. Mechanistic and atomic-molecular approach to the tribosystem running-in process.

Y.L. Khlevna, National Aviation University, Ukraine

10. Structural Changes of the friction surface due to action of pulse modulated current.

A.P. Kudrin, M.N. Svirid, V.G. Parashchanov, A.Y. Yakobchuk, National Aviation University, Ukraine.

11. Abrasive wear resistance and structure of alloying steels.

V.I. Dvoruk, E.P. Puhachevska, S.S. Belykh, National Aviation University, Ukraine.

12. Effect of the triboelectrochemical treatment on the quality of the surface.

V. Egorov, S. Zhachkin, I. Fomenko, PLC "Research Institute of automated means of production and control", Voronezh, Russia.

13. Effect of the triboelectrochemical treatment on the operational characteristics of flange joints.

V. Egorov, S. Zhachkin, I. Fomenko, PLC "Research Institute of automated means of production and control", Voronezh, Russia.

1.5. Problems of recovery controllability of the aircrafts

Chairman – **V. Kazak**, National Aviation University, Ukraine.

Secretary – **D. Shevchuk**, National Aviation University, Ukraine.

26 September, 15³⁰,
room 10.117.

1. Synthesis of a traffic management system on the helicopter altitude.

V.N. Kazak, A.G. Ogyr, National Aviation University, Ukraine.

2. Handoff in heterogeneous wireless data networks.

I. Alekseeva, S. Lemesh, V. Petrova, National Technical University «KPI», Ukraine.

L. Novachuk, National Aviation University, Ukraine.

3. Unmanned aerial vehicle with aerostat attribute.

V.M. Kazak, O.K. Gorbach, National Aviation University, Ukraine.

4. Method of multifractal formalism for analysis information in electronic control systems aircraft gas turbine engines.
S.V. Enchev, S.S. Tovkach, National Aviation University, Ukraine.
5. The recognition of discrete patterns and signals in the neural basis.
F. Geche, V. Kotsovsky, Uzhhorod National University, Ukraine.
A. Batyuk, Lviv National University, Ukraine.
D. Shevchuk National Aviation University, Ukraine.
6. The use of wireless sensor networks for monitoring and control of transport networks based on SDH technology.
I. Alekseeva, A. Kovshyk, T. Prishepa, National Technical University «KPI», Ukraine.
E. Tachinina, National Aviation University, Ukraine.
7. Prevention of occurrence of failure situations in airport using expert system.
V. Vovk, National University of Food Technologies, Ukraine.
M. Vasilyev, National Aviation University, Ukraine.
8. Examples of constructing a mathematical model of the primary signals optimal filters in telecommunication sensor-based systems.
L. Afanasyeva, National Technical University «KPI», Ukraine.
N. Kravchuk, National Aviation University, Ukraine.
9. Automatic allocation of project resources modernization of aviation technics based on gene expression programming artificial immune systems.
J. Zaharchenko, National Aviation University, Ukraine.
10. The method of operative synthesis optimum on energy costs of a control law an aeroplatform for telecommunication systems on the basis of UAV.
A. Lysenko, National Technical University «KPI», Ukraine.
P. Kirchu, National Aviation University, Ukraine.
11. Improvement the energy characteristics of induction motors.
N.D. Krasnoshapka, V.V. Tihonov, T.A. Mazur, National Aviation University, Ukraine.

12. The operation effectiveness increase of wireless sensor networks based on UAVs.

A. Lysenko, S. Valuiskiy, National Technical University «KPI», Ukraine.

N. Kravchuk, National Aviation University, Ukraine.

13. Information connectivity of educational information.

I.V. Prohorenko, Y.T. Guz, National Aviation University, Ukraine.

14. The concept of control reconfiguration to restore the airplane controllability and stability at failure situations.

D. Shevchuk, E. Tachinina, National Aviation University, Ukraine.

Y. Tachinin, Antonov Company.

15. Fuzzy logic application for queue management for TCP/IP networks.

V. Novikov, L. Afanaseva, National Technical University «KPI», Ukraine.

M. Vasilyev, National Aviation University, Ukraine.

16. Making the mathematical model of voltage regulation of the aircraft's power supply system and reserch of static and dynamic processes.

V.P. Zakharchenko, V.V. Kozub, National Aviation University, Ukraine.

1.6 Diagnostic systems in the aerospace complex

Chairmen – **Y. Kuts**, National Aviation University, Ukraine.

Secretary – **V. Yeremenko**, National Aviation University, Ukraine.

26 September, 13⁰⁰,
room 11.311.

1. Circular statistics in acoustic flow detection.

V.S. Eremenko, Yu.V. Kuts, S.V. Shengur, E.F. Suslov, National Aviation University, Ukraine.

2. Circular data point and interval evaluation.
Yu.V. Kuts, A.V. Dergunov, S.V. Shengur, National Aviation University, Ukraine.
3. Nondestructive testing of honeycomb panels via art-2 and fuzzy-art neural networks.
V.S. Eremenko, A.V. Pereidenko, P.A. Shegedin, National Aviation University, Ukraine.
4. Laws of change of acoustic emission time parameters at destruction of composite material by shear load.
F. Filonenko, O.P. Kosmach, National Aviation University, Ukraine.
5. Calculation procedure for the quantum elements robot's nanosystems.
V.V. Kovalchuk, V.A. Gromov, Alex. Alex. Panchenko, Military Academy, Odessa, Ukraine.
O.Yu. Shepel, National Aviation University, Ukraine.
6. Decision support systems using in product lifecycle and project management.
I. A. Osaulenko, Cherkassy State University B. Khmelnytsky Named, Ukraine.
V.M. Ilchenko, National Aviation University, Ukraine.
7. The error accuracy of the output link of associated movements of the kinematic chain
K.Y. Ohrimenko, A.V. Manziura, Cherkassy State Technological University, Ukraine.
K. Eichhorn (K.K. Ohrimenko), German Society of International Cooperation, Germany.
D.P. Ornadsky, National Aviation University, Ukraine.
8. Calculation and reliability of technical information security.
B.E. Zhurilenko, N.S. Pelikh, National Aviation University, Ukraine.

9. Tasks of vibrodiagnostic of mechanisms and systems in aviation.
G. Sokolovska, L. Scherbak, National Aviation University, Ukraine.

10. Certification of personnel professional activities on non-destroying testing.
I.P. Belokur, Y.O. Gordonna, National Aviation University, Ukraine.

1.7 Information security in aviation

Chairman – **O. Korchenko**, National Aviation University, Ukraine.

Secretary – **Yu. Pepa**, National Aviation University, Ukraine.

26 September, 14⁰⁰,
room 11.111.

1. Commercial quantum information security systems.
S.O. Gnatyuk, O.G. Korchenko, National Aviation University, Ukraine.

2. Technology of compression of images is on base of method of coding of binary sequences due to the amount of bit changes.
M. Lutskiy, K. Kurin, National Aviation University, Ukraine.

3. Matrix analogues of the diffi-hellman protocol.
A.Ja. Beletsky, O.I. Volivach, R.Ju. Kandiba, D.A. Navrotsky, National Aviation University, Ukraine.

4. The use of fingerprints in the elliptic curve cryptosystems.
V.A. Shvets, V.V. Shestakova, National Aviation University, Ukraine.

5. A method of coding of binary sequences based on the amount of bit changes.
M. Gumen, K. Kurin, National Aviation University, Ukraine.

6. The development and implementation of enterprise information security policy.
B.Y. Korniyenko, O.K. Yudin, National Aviation University, Ukraine.

7. Cryptographic of wired equivalent privacy protocol and how it can improve.

O.K. Yudin, O. Veselskaya, National Aviation University, Ukraine.

8. The effectiveness of methods of coding in ensuring the integrity of information in modern information systems.

V.S. Vasilenko, A.V. Chunarova, A.V. Chunarov, National Aviation University, Ukraine.

9. Disaster management in conditions of governance failure: zeroing in on network models.

A.Tikhomirov, Doctor of Science, Professor, International Informatization Academy, Moscow, RF.

A.Trufanov, PhD, Professor, Irkutsk State Technical University, Irkutsk, RF.

A.Caruso, Doctor of Science, Professor, Court of Auditors, Regional Chamber of Control, Milan, Italy.

A.Rossodivita, Medical Doctor, Professor, San Raffaele Hospital Scientific Foundation, Milan, Italy.

R.Umerov, Postgraduate, National Aviation University, Kyiv, Ukraine.

Z.Umerova, Postgraduate, Crimean Engineering and Pedagogical University, Simferopol, Ukraine.

10. Some new in it-leverages (doctrines, models, tools) to provide.

A. Rossodivita, San Raffaele Hospital Scientific Foundation, Milan, Italy.

A. Trufanov, Irkutsk State Technical University, Irkutsk, RF.

R. Umerov, National Aviation University, Ukraine.

11. Parallelization of software implementation of integer multiplication.

A.V. Kovtun, A.O. Okhrimenko, National Aviation University, Ukraine.

12. Assessment of randomness for ternary sequences in quantum cryptography.

S.O. Gnatyuk, T.O. Zhmurko, National Aviation University, Ukraine.

13. Software complex certification of cryptographic keys.
D.M. Grabinskyi, National Aviation University, Ukraine.

14. Methods of analysis and perfection of the organizational and informative providing of fast of custom service.
N. Gulak, National Aviation University, Ukraine.

15. Digital image processing.
V.V. Vasianovich, National Aviation University, Ukraine.

16. The voice operators authentication by continuous speech considering the phonemes feature characteristics.
V.A. Temnikov, A.V. Peteichuk, National Aviation University, Ukraine.

17. Methods and means of bankig payment systems protection.
Khanko Yaroslav, National Aviation University, Ukraine.

1.8. Specialized Computer Systems and CALS – Technology in Aviation

Chairman – **P. Pavlenko**, National Aviation University, Ukraine.

Secretary – **V. Tretyak**, National Aviation University, Ukraine.

26 September, 14⁰⁰,
room 11.207.

1. Method of optimizing dynamic control re-engineering processes of integrated automated industrial systems.

P. Pavlenko, National Aviation University, Ukraine.

2. Complex approach for technical preproduction process control.

K.S. Babich, National Aviation University, Ukraine.

3. Technology of information support of management production processes of machine-building enterprise.

V. Tretyak, National Aviation University, Ukraine.

S. Doroshenko, JSC «SNPO» Summy, Ukraine.

V. Kovacs, DME Europe, Vsetin, Czech Republic.

4. Method of estimating of the integrated competence of IT-specialist.
Y. Vlasenko, National Aviation University, Ukraine.
5. Forecasting of dynamics of productivity of the equipment of the enterprise by means of information system of technical operation management.
V. Kudryakov, National Aviation University, Ukraine.
6. Formalization subject area processes of motivation IT-specialists.
S.V. Kozyakov, National Aviation University, Ukraine.
7. Information technology of design engineering works managing of industrial companies.
A. Khlevnyi, National Aviation University, Ukraine.
8. The technology of information support of the sized analysis of technical systems.
P. Pavlenko, National Aviation University, Ukraine.
A. Avedyan, Corp. Dassault Systemes , Suresnes Cedex, France.
O. Cherednikov, A. Borisov, Chernihiv State Technological University, Ukraine.
9. Information technology support for the functioning of the gas turbine power.
P. Pavlenko, National Aviation University, Ukraine.
A.V. Tolbatov, Sumy State University, Ukraine.

1.9. The intellectual robot-technical measuring complexes and systems

Chairman – **V. Kvasnikov**, National Aviation University, Ukraine.
Secretary – **O. Osmolovsky**, National Aviation University, Ukraine.

26 September, 10⁰⁰,
room 11.403.

1. Researches of kinematic accuracy of the kinematic chain taking into account the planetary screw roller mechanism.

K.Y. Ohrimenko, *Cherkassy State Technological University, Ukraine.*

K. Eichhorn (K.K. Ohrimenko), *German Society of International Cooperation, Germany.*

V.P. Kvasnikov, *National Aviation University, Ukraine.*

2. The automatic analyzer of quality for motor fuels and oils.

V.V. Drevetskiy, M.M. Klepach, *National University of Water Management and Natural Resources Use, Ukraine.*

O.I. Osmolovskiy, *National Aviation University, Ukraine.*

3. Application of the correlation-extreme method of measuring the phase shift angle between two harmonic signals in automation of calibration works in mobile measurement equipment laboratories.

Yu.I. Yevdokymenko, *Kharkiv Trade and Economic Institute of Kyiv National Trade and Economic University, Ukraine.*

A.P. Nareznyi, N.I. Svitenko, *Metrological Center of Military Measurement Standards of the Armed Forces of Ukraine, Ukraine.*

V.P. Kvasnikov, *National Aviation University, Ukraine.*

D.A. Filisteev, *Central Department of Metrology and Standardization of the Armed Forces of Ukraine of Armaments of the Armed Forces of Ukraine, Ukraine.*

4. Development of control system for smart electrohydraulic press.

M.K. Knyazyev, *National Aerospace University “KhAI”, Ukraine.*

Yu.V. Protsan, *Laboratory of Alternative and Renewable Energy, Ukraine.*

O.I. Osmolovsky, *National Aviation University, Ukraine.*

5. Modeling traffic in control problems of robotic systems.
D.P. Kucherov, National Aviation University, Ukraine.
6. Measuring systems of coordinate movings of measuring robots.
L.V. Kolomiets, Odesa State Academy of the Technical Adjustment and Quality, Ukraine.
Y.P. Leschenko, National Aviation University, Ukraine.
7. The Problem of rigidity of mathematical model in the analysis of robotic systems.
V. P. Kvasnikov, National Aviation University, Ukraine.
O.V. Kvashina, O.G. Barakin, Academy of Fire Safety, Ukraine.
8. Improvement of technique of measurement of surface tension of surfactants solutions by maximum bubble pressure method.
I.G. Kisil, Prof., Ivano-Frankivsk National Technical University of Oil and Gas, Ukraine.
O.I. Osmolovskyi, National Aviation University, Ukraine.
Y.M. Kuchirka, Ivano-Frankivsk National Technical University of Oil and Gas, Ukraine.
9. Controlling method of the laser radiation in technological processes with the help of piezoelectric drive.
L.N. Pokydko, V.Yr. Moskovka, National Aviation University, Ukraine.
V.L. Shkuratnik, Moscow Mountain Institute, Russia.
10. Two gyroscope gravimeter of aviation gravimetric system.
E.N. Bezvesilnaya, National Technical University of Ukraine "KPI", Ukraine.
V.P. Kvasnikov, National Aviation University, Ukraine.
A.V. Koval, Zhytomyr State Technological University, Ukraine.
11. Underground moving devices with intelligent control system.
O.V. Kovanko, National University of Water Management and Nature Resources Use, Rivne, Ukraine.
M.V. Michalko, National Aviation University, Ukraine.

12. Computer-integrated through system of computer-aided design with extension of “life cycle” of stamp instrument.

V.P. Kvasnikov, National Aviation University, Ukraine.

G.M. Kleschov, State Academy of the Technical Adjusting and Quality, city Odesa, Ukraine.

13. Some aspects of manufacturing and diagnostics of structures on the basis of the HgCdTe -solid solutions intended for use in photodetectors of infrared radiation of 3...5 and 8...12 microns.

Ju.E. Gagarin, Kaluga Branch of Bauman Moscow State Technical University, Russia.

S.A. Dvoretzky, N.N. Mikhailov, Rzhanov Institute of Physics of Semiconductors of the Siberian Branch of the Russian Academy of Sciences, Russia.

Ju.N. Dolganin, V.V. Karpov, Moscow Plant "Sapphire", Russia.

N.N. Mikheev, Branch of the Shubnikov Institute of Crystallography of the Russian Academy of Sciences – the Research Center «Space Material Science», Russia.

A.I. Osmolovsky, National Aviation University, Ukraine.

A.N. Polyakov, M.A. Stepovich, Tsiolkovsky Kaluga State University, Russia.

14. Transformation of a photographic image into an input data array for multi-layer modeling of complex objects.

S.V. Golub, S.G. Palash, Cherkasy Bogdan Khmelnytskyi National University, Ukraine.

M.V. Michalko, National Aviation University, Ukraine.

15. Morphological analysis of input information in intelligent robotic systems.

R.N. Kvetny, O.V. Bisikalo, Vinnitsa National Technical University, Ukraine

O.I. Osmolovsky, National Aviation University, Ukraine.

I.A. Kravchuk, Vinnitsa National Technical University, Ukraine.

16. Measurements of linear accelerations because of artificial neural network .

E.N. Bezvesilnaya, National Technical University of Ukraine “KPI”, Ukraine.

V.P. Kvasnikov, National Aviation University, Ukraine.

Yu.A. Podchashinsky, Zhytomyr State Technological University, Ukraine.

17. Confinement and optical properties of the structure as elements of the robot.

A.N. Sirotenko, V.V Kovalchuk, G.V.Trushkov, Military Academy, Odessa, Ukraine.

V.M. Ilchenko, candidate of technical science, National Aviation University, Ukraine.

18. Nanoparticle’s morphology for the robot intellectual systems.

V.V Kovalchuk, O.V. Afanas’eva, V.O. Rats, Military Academy, Odessa, Ukraine.

M.V. Michalko, National Aviation University, Ukraine.

19. Polymetric method of operational control of qualitative and quantitative characteristics of aviation fuels.

Yuriy D. Zhukov, Boris N. Gordeev, Alexey V. Zivenko, National Shipbuilding University, Nikolaev, Ukraine.

V.M. Ilchenko, National Aviation University, Ukraine.

20. Quality control processes in computerized robotic vision systems.

L.O. Borkovsjka, O.V Borkovskiy, National Aviation University, Kyiv, Ukraine.

21. Polynomial signals detection in background additive-multiplicative non-Gaussian noise.

Y.G. Lega, Cherkasy State Technological University, Ukraine.

V.P. Kvasnikov, National Aviation University, Ukraine.

V.V. Palahin, T.A. Zabochen, Cherkasy State Technological University, Ukraine.

1.10 Advanced information technologies in aviation

Chairmen – **M. Sidorov**, National Aviation University, Ukraine.

Secretary – **M. Olenin**, National Aviation University, Ukraine.

26 September, 15⁰⁰,
room 6.200.

1. Method of calibration of COCOMO model via reduction of the main equation.

D. Batsenko, National Aviation University, Ukraine.

2. Method determining of software component reuse

E.V. Chebanyuk, National Aviation University, Ukraine.

V.I. Chuprinka, Kyiv National University of Technologies and Design, Ukraine.

3. Software constructor of noise simulators for flight simulators.

V.A. Khomenko, National Aviation University, Ukraine.

4. Method of domain analysis to information support of aircraft.

V. Dudnyk, U. Ryabokin, I. Mendzebrovskiy, National Aviation University, Ukraine.

5. Software of the green information systems.

G.Y. Goloborodko, National Aviation University, Ukraine.

6. Models of software ecosystems.

O.O. Grinenko, National Aviation University, Ukraine.

7. Defining the "triangle of velocities" on indirect information from the GPS.

I.O. Kovrizhkin, National Aviation University, Ukraine.

8. High-availability software architecture styles.

A.G. Petruk, National Aviation University, Ukraine.

9. Architecture of a cloud-enabled service oriented platform.

I.M. Sydorov, National Aviation University, Ukraine.

10. Ontology of generation of professional communication of bachelors in software engineering.

Nika Sydorova, National Aviation University, Ukraine.

11. Gradient crossover for real-code genetic algorithms.

O.Zudov, National Aviation University, Ukraine.

12. Global air navigation plan for CNS/ATM systems. Technology solutions for implementation of the next generation of air traffic management.

I.V. Misharin, I.I. Rudnyk, National Aviation University, Ukraine.

1.11 Computer systems

Chairman – **O. Litvinenko**, National Aviation University, Ukraine.

Secretary – **Y. Artamonov**, National Aviation University, Ukraine.

26 September, 15⁰⁰,
room 6.200.

1. Mathematical model of friction at presence of anisotropic admixtures in the composition oil.

O.M. Glazok, National Aviation University, Ukraine.

2. Use of analytical technologies for recognition of images.

Y.B. Artamonov, O.S. Vasyliiev, National Aviation University, Ukraine.

3. Modeling the operation of an aircraft on the basis of test-driven development.

B.G. Maslovskiy, O.M. Glazok, National Aviation University, Ukraine.

4. A software environment for automated text manipulation

V.O. Artamonova, O.O. Zholdakov, National Aviation University, Ukraine.

5. Growing artificial neural networks in dynamic environment.

G.M. Kremenetskiy, National Aviation University, Ukraine.

6. Method of the automated formation of logic-linguistic models.
A.I. Vavilenkova, National Aviation University, Ukraine.
7. Spectral-time models of data signals under the action of interferences in the tasks related to electric and magnetic values measuring.
E.P. Nechyporuk, N.B. Marchenko, National Aviation University, Ukraine.
8. Modeling queueing system with dual requests and determined service times.
O.V. Koba, S.V. Pustova, O.M. Dyshliuk, National Aviation University, Ukraine.
9. The solution method of the nonlinear equations' systems with boolean variables (the combinatory equations).
O.E. Lytvynenko, National Aviation University, Ukraine.
10. Using the functional approach for determining parameters of dynamic models of flying apparatuses.
S.M. Stanko, O.M. Glazok, National Aviation University, Ukraine.
11. Integration virtual desktop infrastructure in the learning process.
V.V. Klobukov, V.A. Ryabokon, L.P. Klobukova, National Aviation University, Ukraine.

1.12. Mathematical modeling and numerical methods

Chairman – **V. Denysiuk**, National Aviation University, Ukraine.

Secretary – **Ye. Shkvar**, National Aviation University, Ukraine.

26 September, 13³⁰,
room 6.200.

1. Numerical modeling of flat plate film cooling with coolant injection into spherical dimples.
A.A. Khalatov, S.D. Severin, Institute of Engineering Thermophysics, NAS, Ukraine.
M.V. Bezlyudnaya, National Technical University "KPI", Ukraine.

2. The numerical simulation of an air flow structure with partial swirl.
T. Donyk, Institute of Engineering Thermophysics, NAS, Ukraine.
A. Zinchenko, LTD of GK of «Tekhinservis», Ukraine.
A. Khalatov Institute of Engineering Thermophysics, NAS, Ukraine.

3. Mathematical modeling of turbulent vortical flows – the fundamental direction of modern fluid dynamics: different approaches, problems, outcomes and perspectives.
S.A. Isaev, Saint-Petersburg State University of Civil Aviation, Russia.
G.A. Voropaev, Institute of Hydromechanics, NAS, Ukraine.
V.T. Movchan, E.A. Shkvar, National Aviation University, Ukraine.

4. Numerical simulation in high-speed ground vehicle aerodynamics.
O.A. Prykhodko, Dnepropetrovsk National University, Ukraine.
A.V. Sokhatsky, Ukrainian Academy of Customs, Ukraine.
T.V. Kozlova, National Aviation University, Ukraine.

5. Development of the theory of hydrodynamic potentials and the method of boundary integral equations in boundary value problems of hydrodynamics.
Y.A. Krashanytsya, National Aerospace University “KhAI”, Ukraine.
V.T. Movchan, National Aviation University, Ukraine.

6. “Clocking” – an effect of acoustical interaction of turbomachine blade rims.
V.M. Lapotko, Yu.P. Kukhtin, I.F. Kravchenko, SE Ivchenko Progress, Ukraine.

7. Singularities of mathematical modeling the dynamics of energy objects.
A.E. Aslanyan, A.A. Belskaya, National Aviation University, Ukraine.

8. Methods of vortical structure control in turbulent flows and their mathematical models.

***Ye.O. Shkvar, V.V. Kravchenko, O.V. Samusenko,
S.O. Shevchenko, National Aviation University, Ukraine.***

1.13 Energy installation

Chairmen – **M. Kulyk**, National Aviation University, Ukraine.

Secretary – **I. Kinaschuk**, National Aviation University, Ukraine.

26 September, 13³⁰,
room 1.131.

1. Mathematical model of long-term strength of materials Heat resistant Aircraft engines.

M.S. Kulik, O.G. Kucher, M.O. Koveshnikov, Ukraine, National Aviation University, Ukraine.

S.S. Dubrovsky, Kryvyi Rih NTU, Ukraine,

Y.A. Petruk, Ukraine, National Aviation University, Ukraine.

2. Critical modes of flow in airfoil cascade.

Y. Tereshchenko, Y. Tereshchenko, Dorochenko, L.Volyanskaya, National Aviation University, Ukraine.

3. Aerodynamic characteristics of tandem subsonic compressor cascade.

Y. Tereshchenko, L. Volyanskaya., E. Doroshenko, I.Lastivka, National Aviation University, Ukraine.

4. Pick up the question of definition gas-dynamic parameters of subsonic ejectors.

P.I. Grekov, K.I. Kapitanchuk, V.V. Kozlov, E.P. Yasinitskyi, G.N. Nikitina, National Aviation University, Ukraine.

5. Forming of installers for airline's fleet reliability control automated system.

O.A. Tamargazin, O.S. Yakushenko, P.O. Vlasenko, National Aviation University, Ukraine.

6. Method of account of static and cyclic damages mutual interaction on durability of gas turbine heatproof materials.

I.I. Gvozdetskyi, National Aviation University, Ukraine.

7. Numerical flow study in a compressor cascades using different turbulence models.

F. Kirchu, National Aviation University, Ukraine.

8. Methods and problems of operational diagnosing of modern gas-turbine engines in operation.

V.V. Kozlov, Y.M. Chokha, National Aviation University, Ukraine.

9. Method of determination compressor performances with air bleed from middle stages.

Y. Tereshchenko, National Aviation University, Ukraine.

V. Panin, Kyiv State Maritime Academy, Ukraine.

L. Volyanska, National Aviation University, Ukraine.

10. Radial clearances influence on gas turbine engines of air and ground application main parameters.

A.P. Voznyuk, National Aviation University, Ukraine.

11. Analytical method of an experimental compressor stage blade row construction.

M.Y. Bogdanov, I.A. Lastivka, I.F. Kinaschuk, G.N. Nikitina, National Aviation University, Ukraine.

12. The estimation of the technical condition of the power turbine of the convertible aircraft engine.

D.V. Kondratiev, National Aviation University, Ukraine.

SYMPOSIUM 2
UNMANNED AIRCRAFT SYSTEMS (UAS)

Chairman – **V. Kharchenko**, National Aviation University, Ukraine.
Secretary – **D. Prusov**, National Aviation University, Ukraine.

26 September, 9⁰⁰
room 1.215

1. The complex work on the unmanned aircraft system prototype in the National Aviation University.

V.P. Kharchenko, D.E. Prusov, National Aviation University, Ukraine.

2. Methodical approach to validate solutions to fulfill the tasks defined search objects on the basis of unmanned aircraft systems.

O.V. Samkov, G.A. Suslova, V.I. Silkov, O.A. Stepaniuk, National Aviation University.

3. Safety and security integration of unmanned aircraft systems into the world aviation system: National Aviation University experience.

V.P. Kharchenko, D.O. Bugayko, National Aviation University.

4. Improving takeoff performance of twin-engine UAV

M.P. Matychyk, M.V. Makarchuk, National Aviation University, Ukraine.

5. Hinge moment calculation of moving aerodynamic surface

I.D. Smyrnov, S.I. Alekseenko, National Aviation University, Ukraine.

6. Components of information technology processing of data obtained from unmanned aerial vehicle.

P.O. Prystavka, A.V. Assaul, E.P. Nichikov, A.A. Rogatuk, National Aviation University, Ukraine.

7. The automated system "AMap" for constructing 3D maps according to aerospace photography.

P.O. Prystavka, E.P. Nichikov, National Aviation University, Ukraine.

8. Object recognition methods and their application in unmanned aircraft systems.

O. I. Benesyuk, National Aviation University, Ukraine.

9. Conception of licensing of civil remote pilots

M.P. Matijchyk, V.V. Kabanyachyi, D.M. Matijchyk, National Aviation University, Ukraine.

10. The modes of validity of regulatory requirements in regard to specialist training when unmanned aircraft complexes operating.

O.M. Savinov, T.I. Kharlamova, National Aviation University, Ukraine.

11. The solar energy the for unmanned aviation.

K.M. Sydorenko, V.I. Budko, National Aviation University, Ukraine.

SYMPOSIUM 3 AERONAVIGATION AND ATM SYSTEMS

3.1 Air traffic management and service

Chairman – **V. Kharchenko**, National Aviation University, Ukraine.

Secretary – **Yu. Chynchenko**, National Aviation University,
Ukraine.

26 September, 10⁰⁰,
room 11.323.

1. Air traffic control uncertainty factors during single person operations.

V.P. Kharchenko, Yu.V. Chynchenko, National Aviation University, Ukraine.

2. Aircrafts polyconflicts resolution method in the free flight mode.

V.I. Chepizenko, National Aviation University, Ukraine.

3. Worldwide aviation occurrences and space weather phenomena in 2011.

S. T. Polishchuk, Y. V. Chynchenko, National Aviation University, Ukraine.

4. Multiobjective optimization of aircraft conflicts resolution.

D.V. Vasyliiev, National Aviation University, Ukraine.

5. Correction of traffic collision avoidance system advisories using data of ground proximity warning system.

S.A. Buinovskyy, National Aviation University, Ukraine.

6. A methodology for analysis of flight situation development using GERT's and Markov's networks.

V.P. Kharchenko, National Aviation University, Ukraine.

T.F. Shmelova, Y.V. Sikirda, Kirovograd, Flight Academy of the National Aviation University.

7. Safety and effectiveness of civil aviation in conditions of air traffic globalization.

D.O. Bugayko, National Aviation University, Ukraine.

3.2 Communication, navigation, surveillance

Chairman – **V. Kharchenko**, National Aviation University, Ukraine.

Secretary – **I. Ostroumov**, National Aviation University, Ukraine.

26 September, 10⁰⁰,
room 11.323.

1. Analysis of radioelectronic equipment diagnostics and running repair programs efficiency.

O.V. Solomentsev, O.V. Zuiev, U.M. Khmelko, National Aviation University, Ukraine.

2. Approach to obtaining maintenance characteristics of aviation radioelectronic equipment.

O.V. Solomentsev, I.M. Yashanov, M.J. Zalisky, A.O. Musienko,

National Aviation University, Ukraine.

3. Simulation of laser radar in MATLAB.

G. Sokolov, National Aviation University, Ukraine.

4. Satellite signals quality monitoring in case periodic anomalies.

E.A. Kovalevskiy, T.L. Malyutenko, National Aviation University, Ukraine.

5. Software for strategic planning and performance assessment in Ukraine.

N.S. Kuzmenko, National Aviation University, Ukraine.

6. GNSS technology landing system option for flying machine.

V.V. Konin, E.A. Kovalevskiy, T.I. Olevinska, National Aviation University, Ukraine.

7. Monitoring of air traffic using ADS-B system.

V.P. Kharchenko, Y.M. Barabanov, A.M. Grekhov, M.V. Kolchev, National Aviation University, Ukraine.

8. Experimental validation of small integrated navigation system prototype.

V. Kharchenko, V. Kondratyuk, S. Ilynska, O. Kutsenko, National Aviation University, Ukraine.

9. Algorithm of adaptive changes of the OFDM-symbols cyclic prefix duration in modern wireless communication systems.

R.S. Odarchenko, National Aviation University, Ukraine.

10. Modeling of the mesh radiating structure simulating aircraft AN-158 and onboard antenna iridium using MMANA-GAL basic software.

A.M. Grekhov, Yu.N. Barabanov, D.I. Tereshchenko, National Aviation University, Ukraine.

11. Research of EGNOS reliability in Kiev.

V.V. Konin, F.O. Shyshkov, National Aviation University, Ukraine.

12. Position detection by angular method in air navigation.
I.V. Ostroumov, National Aviation University, Ukraine.
13. GRNN α : a contribution to general regression neural network for estimating target position.
G. Büyükkaksoy Kaplan, A. Lana, F. Ekici, Tubitak Bilgem Information Technologies Institute, Turkey.
14. Monitoring and control technical means used in airport infrastructure based on GNSS.
V.V. Konin, K.O. Mironov, National Aviation University, Ukraine.
15. Results of complex processing GPS and GLONASS data in case of restricted visibility of navigation satellites.
V. Konin, O. Pogurelskiy, National Aviation University.
16. Comparative assessment of accuracy of distance-measuring radionavigation systems data processing algorithms.
V.M. Vasyliiev, National Aviation University, Ukraine.
K.V. Naumenko, Antonov Company, Ukraine.
17. Milestones of EGNOS technologies implementation in aviation of Ukraine: international project «EEGS2».
A.I. Dokhov, A.M. Lukyanov, A.A. Zhalilo, A.A. Zhelanov, Kharkov National University of Radio Electronics, Ukraine.
18. Adaptive method of forming weights without reference signal
V. A Shvets, PhD, V.V. Klobukov, National Aviation University, Ukraine.

3.3 Avionics

Chairman – **A. Skrypets**, National Aviation University, Ukraine.

Secretary – **Y. Hryshchenko**, National Aviation University, Ukraine.

26 September, 10⁰⁰,
room 5.405.

1. Photopolarimetric method of polarization radiation parameters determination.

M.M. Asanov, O.V. Kozhokhina, A.V. Skrypets, V.D. Tronko, National Aviation University, Ukraine.

2. Flight safety and human factor: new approach to prevention of aviation incidents.

Y.V. Hryshchenko, E.M. Hohlov, V.M. Himin, Y.Y. Hryshchenko, National Aviation University, Ukraine.

3. Engineering-psychological analysis of visual inspections quality of old and new generation avionics.

O.Tryzna, National Aviation University, Ukraine.

4. Problems of pilots losing their spatial orientation because of air traffic controller commands.

V.D. Gulenko, Y.V. Hryshchenko, V.O. Rogozhin, National Aviation University, Ukraine.

5. Methods of air traffic controllers anti-stress training.

O.V. Kozhokhina, Y.V. Hryshchenko, National Aviation University, Ukraine.

6. Spatial and frequency descriptions, power spectrums to the analysis of parameters of images of flight information.

O.G. Sitnik, O.O. Chuzha, National Aviation University, Ukraine.

7. Automatic survey-comparative navigational

O.O. Chuzha, National Aviation University, Ukraine.

8. Estimates for visual flight information crew under the influence of psychological factors.

O.G. Sitnik, L.M. Sytianskykh, National Aviation University, Ukraine.

9. Influence signal/ noise in semiconductor matrixes resolution of the digital remote sensing systems the earth's surface.

V.N. Belinsky, National Aviation University, Ukraine.

10. Application of head-up display to reduce pilot's information stress level and improve flight efficiency.

K. Sakhno, O. Kozhokhina, National Aviation University, Ukraine.

11. Information stress factors and diagnosis technics for air traffic controllers

O.V. Kozhokhina, O.P. Klymenko, S.I. Rudas, National Aviation University, Ukraine.

12. Usability of interfaces

O.Y. Burov, O.R. Tsarik, National Aviation University, Ukraine.

13. Model-based design of automatic flight control systems

D. Prosvirin, National Aviation University, Ukraine.

3.4 Aviation English and safety of flight

Chairman – **O. Petrashchuk**, National Aviation University, Ukraine.

Secretary – **L. Korol**, National Aviation University, Ukraine.

26 September, 10⁰⁰,
room 11.313.

1. Safe spoken interaction in ground-to-air communication.

Olena Petrashchuk, Olga Volk, National Aviation University, Ukraine.

2. Equal partnership in airnavigation dialogue as a condition of human factor negative impact elimination during r/t communication.

K. Povoroznik, National Aviation University, Ukraine.

3. Engineering competency in aviation safety.
T. Kharlamova, National Aviation University, Ukraine.
4. Methodology of Organization of the Academic Activity of English Teaching for Pilots.
E.N. Nikolaeva, Aviation Training Center, St. Petersburg, Russia
5. The effect of pedagogical technology in future air traffic controller instructor training.
L. Nemliy, National Aviation University, Ukraine.
6. On actual problems of aviation English pedagogy.
A.N. Vitryak, B.Y. Slipak, Kirovograd Flight Academy of National Aviation University, Ukraine.
7. Perspectives on the importance of Rater Standardisation in Language Testing for ICAO LPR compliance.
Simon Cook, MLS International College, UK.
8. Standardization of the English language proficiency requirements for aircraft maintenance engineers as means of improvement of aviation safety.
L. Korol, National Aviation University, Ukraine.

3.5 Automated process control systems

Chairman – **V. Sineglazov**, National Aviation University, Ukraine.

Secretary – **M. Mukgina**, National Aviation University, Ukraine.

26 September, 14⁰⁰,
room 5.411

1. Model predictive control with attractor for exploration tasks.
M.P. Mukhina, N.P. Rybak, National Aviation University, Ukraine.
2. Linearization of characteristic of intelligent capacitance sensor.
I. Yu. Sergeyev, National Aviation University, Ukraine.

3. Improving the reliability of navigation information for small UAV.
N.K. Filiashkin, M.V. Novik, National Aviation University, Ukraine.
4. Limit cycles in nonlinear systems of stabilization.
A.K. Ablesimov, K.A. Polezhay, National Aviation University, Ukraine.
5. Aircraft's trajectory at the compressed time scale prediction as the flight control on-board systems intellectualization.
O.V. Melnykov, National Aviation University, Ukraine.
6. Results and prospects of aircraft manual control systems development.
V.I. Kashmatov, National Aviation University, Ukraine.
7. Onboard density meter of jet fuel.
A.P. Kozlov, National Aviation University, Ukraine.
8. Peculiarities of gas-dynamic method of takeoff and landing UAV.
N.F. Tupitsin, O.S. Yurchenko, National Aviation University, Ukraine.
9. Evaluation of system cost for dynamic segment allocation of memory.
V.M. Sineglazov, O.S. Yurchenko, N.F. Tupitsin, National Aviation University, Ukraine.
10. Classification system modeling in visualization of creation aircraft simulators.
N.V. Apenko, National Aviation University, Ukraine.
11. Training radial-basis neural networks for the problems of diagnosis solution.
V.M. Sineglazov, National Aviation University, Ukraine, E.I. Chumachenko, O.Yu. Levitsky, National Technical University of Ukraine "KPI", Ukraine.

12. One approach for the forecasting task solution.

*V.M. Sineglazov, National Aviation University, Ukraine,
E.I. Chumachenko, V.S. Gorbatiuk, National Technical University
of Ukraine “KPI”, Ukraine.*

13. Automated system for regulation heat consumption.

*A.O. Nazarenko, Institute of engineering thermophysics NAS of
Ukraine.*

3.6 Complex systems control

Chairman – **V.N. Azarskov**, National Aviation University, Ukraine.

Secretary – **O.A. Sushchenko**, National Aviation University,
Ukraine.

26 September, 13³⁰,
room 5.503

1. Some asymptotic results for online learning in neural networks
used as models of complex systems.

*V.N. Azarskov, L.S. Zhiteckii, S.A. Nikolaienko, National Aviation
University, Ukraine.*

2. LMI-based design of spinning rigid body robust flight control.

*A.A. Tunik, O.P. Basanets, M.M. Komnatska, National Aviation
University, Ukraine.*

3. Accelerated initial alignment procedure of strap-down inertial
navigation system based on extended Kalman filtering and stochastic
approximation.

*V.B. Larin, A.A. Tunik, G.G. Valdenmayer, National Aviation
University, Ukraine.*

4. Robust optimization of the precision navigation marine systems.

O.A. Sushchenko, National Aviation University, Ukraine.

5. Modelling trajectory rotation in coriolis vibratory gyroscopes.

V. Apostolyuk, National Aviation University, Ukraine.

6. The conception of flight safety management for civil aviation airports.

S.S. Devyatkina, National Aviation University, Ukraine.

7. Methods of maintenance of functional stability of onboard information and control complexes of aircraft.

O.A. Mashkov, National Aviation University, Ukraine.

8. Justification of requirements for a long-term ground automated complex of spacecraft control in geostationary orbit.

V.M. Azarskov, V.I. Bogomya, National Aviation University, Ukraine.

9. Complex aircraft control system with distributed aerodynamics.

V.V. Pavlov, National Aviation University, Ukraine.

K.A. Kopytova, IRTCofITandS NANU, National Aviation University, Ukraine.

3.7 RADAR METHODS AND SYSTEMS WORKSHOP (RMSW-2012)

RMSW 2012 Chairman – **Feliks Yanovsky.**

RMSW 2012 Coordinator – **Yuliya Averyanova.**

SESSION B1

Mathematical methods and modelling in radar

Chairperson – **Prof. Felix Yanovsky (Ukraine)**

26 September, 9⁰⁰,

Academic Council Hall

1. Mathematical Models and Methods to Radar.

N. M. Glazunov, F. J. Yanovsky, National Aviation University, Ukraine.

2. Technique of Space Discretisation for CW-radars.
Sergey F. Kolomiets, Moscow Institute of Physics and Technology, Dolgoprudniy, Russia.
3. One-Survey-Detection and Estimation of Trajectory Parameters of Rapid Radar Targets.
Igor Prokopenko, Vitaliy Vovk, National Aviation University, Ukraine.
4. Rayleigh Scattering Revised.
A.G. Gorelik, S.F. Kolomiets, Moscow Institute of Physics and Technology, Dolgoprudniy, Russia.

SESSION B2

Design of radar components and antennas

Chairperson – **Prof. Volodymyr Ulansky (Ukraine)**

26 September, 11⁰⁰,
Academic Council Hall

1. The Design and Optimization of Voltage Controlled Oscillators in 0.13 μm CMOS Technology for 3G and Bluetooth Transceivers.
V.V. Ulansky, V.G. Antoshkin, D.S. Draga, N.E. Kornitsky, B.V. Pauk, O.S. Ponomarev, National Aviation University, Ukraine.
2. A New Design of Band Notched Microstrip Antenna for UWB Applications.
Hemlata Soni, Pushtivardhan Soni, Bhoopendra Sharma, Pradeep Chhawcharia, Electronics & communication, Techno India NJR Institute of Technology, India.
3. Double Side Microstrip Antennas with Three Slots for UWB Applications with Band Rejection Characteristics.
Hemlata Soni, Pushtivardhan Soni, Bhoopendra Sharma, Pradeep Chhawcharia, Electronics & communication, Techno India NJR Institute of Technology, India.

4. Radiation Pattern Generation Using a Modified Least Squares Method.

B. Pompeo, L. Pralon, M. Pralon, H. Cioquetta, G. Beltrão, R. Mendes, Brazil.

5. Wearable Antenna for GPS Applications.

Yahya S. H. Khraisat, Al-Balqa' Applied University/Al-Huson University College, Jordan.

SESSION B3

Radar signal design, signal and image processing

Chairperson – **Prof. Gaspare Galati (Italy)**

26 September, 13⁵⁰,
Academic Council Hall

1. Phase-Noise signals design for modern radar applications.

Gaspare GALATI and Gabriele PAVAN, Tor Vergata University, Roma, Italy.

2. Scatter-Plot Based Blind Estimation of Mixed Noise Parameters for Remote Sensing Image Processing.

***V.V. Abramova, S.K. Abramov, V.V. Lukin, National Aerospace University, Ukraine,
B. Vozel, K. Chehdi, University of Rennes I, France.***

3. Neural network Based Edge Detection in Prefiltered SAR Images.

***A.V. Naumenko, V.V. Lukin, National Aerospace University, Ukraine.
K. Egiazarian, Tampere University of Technology, Finland.***

4. Range-azimuth radiometric imaging using Ka-band Noise waveform SAR.

K.A. Lukin, V.P. Palamarchuk, P.L. Vyplavin, V.V. Kudriashov, LNDES, IRE NASU, Kharkov, Ukraine.

5. Modeling and Regression Approximation of Dependence of Optimal Smoothing Parameter on the Sample Size for Kernel Probability Density Estimation.

Igor Prokopenko, Igor Martynchuk, National Aviation University, Ukraine.

SESSION B4

Poster Session

Chairperson – **Prof. Igor Prokopenko** (Ukraine).

26 September, 15³⁰,
Foyer in the 1st building, 1st Floor

1. Compensation of Radiation Damage in the Integrated Circuits on MOS Transistors.

M.K. Baizhumanov, Academy of the Civil Aviation, Almaty, Republic Kazakhstan.

A.A. Tuyakbayev, Academy of the Civil Aviation, Almaty, Republic Kazakhstan.

V.K. Bishimbaev, member of Parliament RK.

D.A. Tuyakbaev, “GAZI” University, Ankara, Turkey.

2. Single-level Model for Simulation of the Effect of Electron Irradiation on Transistors.

A.A. Tuyakbayev, M.K. Baizhumanov, Academy of the Civil Aviation, Almaty, Republic Kazakhstan,

D.A. Tuyakbaev, “GAZI” University, Ankara, Turkey.

3. Influence of Electromagnetic Waves on Carbon Nanotubes Composites.

D.E. Aznakayeva, N.M. Nischenko, E.G. Aznakayev, National Aviation University, Ukraine.

4. Superheterodyne Amplification of Optical and Terahertz Beams in Nitride Films.

C. Castrejon-M., V. Grimalsky, S. Koshevaya, CIICAp, Autonomous University of State Morelos (UAEM). Mexico.

Yu. Rapoport, Physical Faculty, T. Shevchenko National University, Kiev, Ukraine.

5. Modern and prospective methods for dangerous meteorological phenomena observation.

Yu. Averyanova, National Aviation University, Ukraine.

6. Transient processes and the Fourier transform.

N.A. Mironov, National Aviation University, Ukraine.

7. Radar Detection of Volcanic Ash Cloud: Maximum Range.

Andrey Mikolushko, National Aviation University, Ukraine.

8. The use of radiolocation control methods to protect the perimeters of large objects.

K. Kolesnik, A. Kipensky, E. Sokol, NTU “KhPI”, Kharkov, Ukraine.

9. Radiotechnical Systems of Detection Radio Signals and Evaluation of Their Characteristics Under the Influence of Noise.

G. Sokolovska, L. Shcherbak, National Aviation University, Ukraine.

10. Millimeter and Sub-Millimeter Wave Radiometric Imaging Systems.

A. A. Vertiy, International Laboratory for High Technology (ILHT), Gebze-Kocaeli, Turkey.

A. V. Pavlyuchenko, International Laboratory for High Technology (ILHT), Turkey; State Research Center “Iceberg”, Kiev, Ukraine.

A.G. Denisov, State Research Center “Iceberg”, Kiev, Ukraine.

F. Hacizade, D. Riza, A. Kholmatov, National Research Institute of Electronics and Cryptology (UEKAE), Gebze-Kocaeli, Turkey.

11. The development of program model for electromagnetic compatibility estimation

L.V. Sibruk, D.P. Bondarenko, D.L. Sibruk, National Aviation University, Ukraine.

SESSION B5
Remote sensing methods and systems
Chairperson – Prof. Alex Vertiy (Turkey).

26 September, 16²⁰,
Academic Council Hall

1. Automatic Measuring System for Remote Sensing for Monitoring Adverse Weather Conditions.

E.A.Miller, E.N.Kadygrov, Central Aerological Observatory, Russia,

A.V.Troitsky, Radiophysical Research Institute, Russia,

A.N.Shaposhnikov, Central Aerological Observatory, Russia.

2. Extremely High Frequency Radiometric Imaging System.

A. A. Vertiy, A. V. Pavlyuchenko, International Laboratory for High Technology, Turkey.

3. Double Frequency Sounding of Ellipsoidal Water Drops.

A. B. Veselovskaya, A. M. Linkova, G.I. Khlopov, Institute of RadioPhysics and Electronics J. Usikov National Academy of Science of Ukraine, Ukraine.

4. Airborne Radar – Thermal Infrared Diagnosing of Overwatering Soils.

V.K. Ivanov, A.Ya. Matveev, V.N. Tsymbal, S.Ye. Yatsevich, IRE of NAS of Ukraine, Ukraine.

5. Spectral-Polarimetric Method of Objects and Phenomena Observation.

F. J. Yanovsky, National Aviation University, Ukraine.

SYMPOSIUM 4 ENVIRONMENT PROTECTION

4.1 Biotechnology in aviation

Chairmen – **K. Garkava**, National Aviation University, Ukraine.

Secretary – **V. Gorupa**, National Aviation University, Ukraine.

26 September, 10⁰⁰,
room 5.713.

1. Microorganisms participation in oil hydrocarbons biodegradation.

**O.A. Vasylychenko, O.R. Aliieva, O.L. Matvyeyeva,
M.M. Baranovsky, National Aviation University, Ukraine.**

2. Installation for biogas from sludge natural reservoirs.

**V.V. Gorupa, L.S. Iastremska, National Aviation University,
Ukraine.**

3. Selection of methanogenic bacteria for improving the biogas production.

**L.A. Khrokalo, A.I. Doloman, National Technical University of
Ukraine “Kyiv Poitecnic Institute”, Ukraine.**

L.S. Iastremska, National Aviation University, Ukraine.

4. The peptidases of *bacillus thuringiensis* IMV B-7324 as basis of cardiovascular means for pilots treatment.

**N.A. Nidialkova, O.V. Matselyukh, L.D. Varbanets, Zabolotny
Institute of Microbiology and Viorology, NASU, Ukraine.**

E.G. Garkavaya, National Aviation University, Ukraine.

5. Nanoscience, nanopharmacology, nanobiotechnology: possible adoption into aviation.

**I.S. Chekman, N.O. Gorchakova, P.V. Simonov, Bogomolets
National Medical University, Ukraine.**

K.G. Garkava, National Aviation University, Ukraine.

6. The influence of long – term soil ontamination by aviation fuel on microbiological processes.

I.M. Malinovska, N.A. Zinovieva, National Aviation University, Ukraine.

7. Increase psychophysical health operators in aviation.

O.M. Kovalev, A.O. Pavlov, National Aviation University, Ukraine.

O.O. Lynnyk, Bogomolets National Medical University, Ukraine.

8. Biotechnology perspectives in surface engineering. Review.

V.F. Labunets, V.G. Lazariiev, National Aviation University, Ukraine.

R.J. Belevtsev Institute of Environmental Geochemistry of NASU, Ukraine.

I.P. Kozlova, Zabolotny Institute of Microbiology and Virology NASU, Ukraine.

9. Using of *plantago major* l. and *trifolium pratense* l. for purification soil airfields from heavy metals.

K.A. Dovgopola, T.V. Shevtsova, National Aviation University, Ukraine.

10. Microbial communities of grey forest soil polluted increasing doses of heavy metals.

I.M. Malinovskaya, Y.I. Litvin, National Aviation University, Ukraine.

4.2 Chemical technology and engineering

Chairman – **L.D. Maslennikova**, National Aviation University, Ukraine.

Secretary – **T.A. Haievska**, National Aviation University, Ukraine.

26 September, 10⁰⁰,
room 12.211.

1. Structure and phase transformations in the system $\text{Fe}_2\text{O}_3 : \text{SiO}_2$ in the hydrothermal conditions.

O.I. Kosenko, A.D. Kustovska, National Aviation University, Ukraine.

2. Synergic mixtures protective action as the function of water-saline medium components nature and ratio of its concentrations at corrosion of steel.

V. Ledovskih, S. Levchenko, S. Tulainov, National Aviation University, Ukraine.

3. Cathode reduction of aliphatic aldehydes on cadmium electrode for regeneration of waste motor oils.

V.M. Ledjvskih, O.M. Davydenko, E.O. Rogova, National Aviation University, Ukraine.

4. Modification of polyethylene materials by propanetriol-1,2,3.

F.G. Fabulyak, D.V. Karandiei, National Aviation University, Ukraine.

5. Influence of ethanediol-1,2 on dielectric properties of polyethylene of high pressure.

F.G. Fabulyak, V.V. Palagnyuk, National Aviation University, Ukraine.

6. Some aspects of fuel cells.

I.I. Voytko, V.V. Babanov, O.O. Zubriy, O.M. Kozlova, National Aviation University, Ukraine.

7. Dielectric research of polyisoprene modified by carbamide.

A.U. Ostrogrud, National Aviation University, Ukraine.

8. Study of some additives on process aromatic acids curing compositions based on epoxy resin ED-20.

T.G. Samarska, M.V. Lukomska, O.M. Melnyk, National Aviation University, Ukraine.

9. Biofuel-petroleum fuel blends research.

Evgeny F. Novoselov, Yaroslav Utchenko, National Aviation University, Ukraine.

10. Investigation of the mechanism of heterogeneous-catalytic oxidation of 1,1,1- and 1,1,2-trichloroethane by mass-spectrometry.

T.A. Haievska, I.V.Olshevsky, Yu.V.Bilokopitov, National Aviation University, Ukraine.

11. Adsorptional removal of vanadium from hydrocarbon systems in natural minerals – loess.

N. Manchuk, E. Bagley, National Aviation University, Ukraine.

12. Ethanol oxidation on manganese dioxide electrode. Effect of medium and conductive additive.

G. Sokolsky, M. Demchenko, S. Kalenuk, National Aviation University, Ukraine.

13. Evaporation of liquid hydrocarbons under the influence of glass microspheres.

O.A. Spaska, S.V. Ivanov, National Aviation University, Ukraine.

4.3 Environmental protection

Chairman – **O. Zaporozhets**, National Aviation University, Ukraine.

Secretary – **K. Synylo**, National Aviation University, Ukraine.

26 September, 10⁰⁰,
room 5.601.

1. Determination and forecast of electromagnetic environment in the airport area using modelling method.

V. A. Gliva, National Aviation University, Ukraine.

L.O. Levchenko, National Technical University of Ukraine, Ukraine.

2. Forecasting the airport noise capacity from measurement results

A. Jagniatinskis, VGTU Scientific Institute of Thermal Insulation, Vilnius, Lithuania.

O. Zaporozhets, National Aviation University, Kyiv, Ukraine.

B Fiks, VGTU Scientific Institute of Thermal Insulation, Vilnius, Lithuania.

3. Sensitivity analyses of the emissions of NO_x from a turbofan engine based on engine model.

N. Dushene, Aviation Environmental Consultant Partner EnViSA, France.

K. Synylo, National Aviation University, Ukraine.

4. The inclusion of aviation in the European Emission Trading Scheme and the reactions of airlines and states – an ethical evaluation.

Hansjochen Ehmer, International University of Applied Sciences Bad Honnef – Bonn, Germany, and German Aerospace Center, Institute of Air Transport, Cologne, Germany.

5. ICAO's Balanced Approach to noise management and its influence on the economic impact of air transportation.

Hansjochen Ehmer, International University of Applied Sciences Bad Honnef – Bonn, Germany.

A. Leipold, M. Murphy, German Aerospace Center, Institute of Air Transport, Cologne, Germany.

6. Approaches to noise influence estimation to human health taking to account some other physical factors.

Andrey V. Vasilyev, Olga V. Bynina, Togliatti State University, Russia.

7. Analysis of the noise monitoring and mitigation strategies at major world airports.

E. Konovalova, National Aviation University, Ukraine.

8. Safety of life activity and environment safety of surrounding area.

Andriy Lukyanchykov, Tetyana Lukyanchykova, National Aviation University, Ukraine.

9. Motivation of the building zone restriction airport "Kiev" (Zhuliany) with provision conditions of an aircraft noise and for aircraft park developments.

V.M. Zbrozhek, National Aviation University, Ukraine.

10. 2D-modeling of airport terminal multi-frequency electromagnetic pollution.

A.V. Vishnevsky, National Aviation University, Ukraine.

11. Application of natural raw plant materials based sorbents in the purification systems of oil contaminated waters of aviation enterprises.

L.I. Pavliukh, S.V. Boychenko, PhD, Professor, National Aviation University, Ukraine.

4.4 Aviation congress school of young scientists

AVIATION AND ENVIRONMENTAL PROTECTION FROM CIVIL AVIATION IMPACT

Chairman – **O. Zaporozhets**, National Aviation University, Ukraine.

co-Chairman – **V. Tokarev**, National Aviation University, Ukraine

Secretary – **K. Kazhan**, National Aviation University, Ukraine.

26 September, 10⁰⁰,
room 5.601.

1. Individual Risk Calculation Method – Light Aircraft.

I. Gosudarska, National Aviation University, Ukraine.

2. Management of the aircraft fleet structure for enhancement of the environmental safety and the airport capacity.

K. Kazhan, National Aviation University, Ukraine.

3. Efficient environmental impact assessment for airport projects.

M.M. Radomska, National Aviation University, Ukraine.

4. Improved algorithm of traffic flows noise modeling.

Y.S. Shevchenko, National Aviation University, Ukraine.

5. Sound transmission loss improvement of aviation panels with concentrated masses.

V.M. Makarenko, National Aviation University, Ukraine.

SYMPOSIUM 5 AVIATION CHEMMOTOLOGY

("Kulon" boarding house, Rybache, Crimea)

Chairman – **L. Yanovsky**, FGUP “Central Institute of Aircraft Engines named by P.I. Baranov”, Russian Federation

Co-Chairman – **S. Boichenko**, National Aviation University, Ukraine

Secretary – **L. Cherniak**, National Aviation University, Ukraine.

1. The cleaning efficiency of aviation fuel in the tank continuous type of diffuser.

S. Puzik, V. Zakrevskiy, V. Shevchuk, A. Hvozdetzkyi, National aviation university, Ukraine.

2. Modern methods of fillings stations negative influence prevention.

L. Cherniak, M. Radomska, S. Boichenko, National Aviation University, Ukraine.

3. Influence treated of TS-1 jet fuel with electric field on his antiwear properties.

I. Trofimov, National Aviation University, Ukraine.

4. Comparative analysis of environmental safety of alternative aviation fuels.

M. Radomska, National Aviation University, Ukraine.

5. New biofuel with enhanced chemmotological characteristics.

E. Novoselov, National Aviation University, Ukraine.

6. Improved environmental safety in the treatment of waste oil.

A. Leshchynska, M. Bezovskaya, J. Zelen'ko, Dnepropetrovsk National University of Railway Transport Named After Academician V. Lazaryan, Ukraine.

7. Engine Oils Quality Trends and Challenges in Ukraine.

M. Zakharchuk, S. Boichenko, L. Cherniak, National Aviation University, Ukraine.

8. Experimental comparison of differential-phase method and method of dynamic focusing in defining of roughness parameters of surfaces.

A. Stelmakh, R. Al-Tamimi, D. Hussein, A. Ibraimov, National Aviation University, Ukraine.

9. Innospec fuel specialties. Company activity overview.

A. Pushak, PALTEH, Ukraine.

D. Rinda, Innospec Fuel Specialties, Russia.

U. Plattes, Innospec Fuel Specialties, Germany.

10. Additives to alternative renewable fuels.

A. Pushak, PALTEH, Ukraine.

D. Rinda, Innospec Fuel Specialties, Russia.

U. Plattes, Innospec Fuel Specialties, Germany.

11. Investigation of the fractional composition of rape oil-derived aviation biofuels.

A. Yakovleva, O. Vovk, S. Boichenko, National Aviation University, Kyiv, Ukraine.

12. Estimation of soil quality on the territories of formers airports applying of zinc equivalent of pollutants.

O. Shtyka, T. Bilyk, National Aviation University, Kyiv, Ukraine

13. Speaking the Same Language: Tribology.

P.P. Ing, Treasurer of the European Lubricating Grease Institute (ELGI), Netherlands.

14. The Study of Synthesis Process and Performance of High Oil-absorbing Resin Prepared by Waste Tires

Wu Yao, Zhang Bo, Tang XiaoFeng, Jiang Jie, Xie Bujin, Zhang LiGuo, Civil Aviation University of China, Tianjin, China.

Ma Deqi, Tianjin Entry-Exit Inspection and Quarantine Bureau, China.

15. Biofuel blending research.
E. Novoselov, National Aviation University, Ukraine.
16. Investigation of hydraulic fluid «Hydraunycoil» FH-51 components chemical transformations during long-term use.
O. Kuznetsova, Ja. Netreba, A. Solovjov, National Aviation University, Ukraine.
17. Prospects for production and use of biobutanol as an alternative fuel in Ukraine.
K. Bondarenko, S. Boichenko, National Aviation University, Ukraine.
V. Kirichenko, Khmelnytsky National Technical University, Ukraine.
18. Flight safety: bioresistance problems of aviation fuel, products and materials used in aircraft construction.
T.A. Kondratyuk, «Institute of Biology» «Educational and Scientific Centre» Taras Shevchenko National University of Kyiv, Ukraine.
E.S. Kharkevich, I.N. Kurchenko, PhD D.K. Zabolotny Institute of Microbiology and Virology of NAS of Ukraine, Ukraine.
19. The assessment of general schemes of biogasgenerating units for the receipt of fuel
V.I. Karpenko, V.V. Kozlov, National Aviation University, Ukraine.
L.P. Golodok, Dnipropetrovsk National University, Ukraine.

SYMPOSIUM 6

COMMUNICATION FACTOR IN MODERN INTERNATIONAL RELATIONS

6.1 Communication factor in modern international relations

Chairman – **A. M. Fomenko**, National Aviation University, Ukraine.

Secretary – **A.V. Gorobei**, National Aviation University, Ukraine.

27 September, 10⁰⁰,
room 7.102.

1. Transformation of transport EU policy in the post-bipolar period.

M.M. Aliiev, National Aviation University, Ukraine.

2. Role of strategy of national security of the state in system of the international relations.

V.O. Chmelyov, National Aviation University, Ukraine.

3. Preventive diplomacy and asymmetric strategies in the international security policy and antiterrorist operations.

A.N. Goncharenko, National Aviation University, Ukraine.

4. Forming of foreign-policy doctrine of Russian Federation (1991-1996).

O.Yu. Kondratenko, National Aviation University, Ukraine.

5. Problems of introduction of criminal responsibility for illegal enriching.

V.N. Kubalskiy, National Aviation University.

6. Strategic prediction systematicness in the USA political analysis model.

N.F. Rzhavska, National Aviation University, Ukraine.

7. International cooperation of Ukraine in the aerospace sector.

S.V. Sidenko, National Aviation University, Ukraine.

8. Prospects of Ukraine's joining of EU open skies agreement
Vira Mazur, Nickolay Zosimovych, National Aviation University, Ukraine.

6.2 Modern Ukrainian journalism in the system of international communication

Chairman – **Y. V. Kozachok**, National Aviation University, Ukraine.

Secretary – **R. D. Popiuk**, National Aviation University, Ukraine.

26 September, 10⁰⁰,
room 7.216.

1. Social and political journalism of Mykola Kostomarov in genesis of modern political thinking (on the material of the article "Tysiacholittia [Rosiji]" ("Millenium [of Russia]")).

Y.V. Kozachok, National Aviation University, Ukraine.

2. Ritual phraseological units in the internet media.

V.M. Vasylychenko, National Aviation University, Ukraine.

3. Reportage-investigation as a new form of journalism genre. in modern ukrainian press.

A.A. Ivashchuk, National Aviation University, Ukraine.

4. Conceptualisation and pragmatics of the somatisms in journalistic texts.

I.V. Kevlyuk, National Aviation University, Ukraine.

5. Convergent journalism: trends.

And manifestations in modern ukrainian media practices.

G.I. Nazarenko, National Aviation University, Ukraine.

6. "Linternet" as the plane of an intercultural communication: basic concepts and terms.

E.D. Tsykhovska, National Aviation University.

7. The peculiarity of project producing in Ukrainian mass media sphere.

V.V. Chekalyuk, National Aviation University, Ukraine.

8. Social networks as means of combating corrupt practices.

M.D. Danchuk, National Aviation University, Ukraine.

SYMPOSIUM 7 ECONOMY AND MANAGEMENT IN AVIATION

Chairman – **V. Matvieiev**, National Aviation University, Ukraine.

co-Chairman – **M. Novykova**, National Aviation University, Ukraine.

Secretary – **A. Shevchenko**, National Aviation University, Ukraine.

26 September, 10⁰⁰,
room 2.401.

1. Role of air transport in the development of the agricultural sector.

G. Yun, H. Kandyba, National Aviation University, Ukraine.

2. Aviation personnel in human capital management system of aviation transport enterprise.

G. Zhavoronkova, T. Shkoda, V. Zhavoronkov, National Aviation University, Ukraine.

I. Sadlovska, Ministry of Infrastructure, Ukraine.

3. Formation and development of air transport-logistics clusters.

V. Kulik, O. Poznyak, J. Remyga, National Aviation University, Ukraine.

4. Theoretical fundamentals of functional subsystems economic resource saving mechanism for airline.

T. Oleshko, O. Marusych, National Aviation University, Ukraine.

5. Adaptive development model for Ukrainian airlines due to globalization.

L. Lytvynenko, V. Novak, National Aviation University, Ukraine.

6. Expected consequences of Ukrainian economic integration with EU.

T. Bilenko, National Aviation University, Ukraine.

7. Air cargo value network management.
M. Grygorak, M. Budnichenko, National Aviation University, Ukraine.
8. The influence of bank credit scheme on the investment process of Ukraine.
T. Bilenko, National Aviation University, Ukraine.
9. Barriers to forming policy in energy saving.
Yu. Dyiak, National Aviation University, Ukraine.
10. Competition advocacy in Ukraine.
V. Klymenko, National Aviation University, Ukraine.
11. Optimization of a set of surveillance means for ground aerospace monitoring in agriculture and forestry.
A. Kozub, N. Suvorova, S. Pron', National Aviation University, Ukraine.
12. Influence of the world growth in air transportation and related personnel shortages on the Ukrainian airlines competitiveness.
V. Marchenko, V. Perederiy, National Aviation University, Ukraine.
13. Conditions for development of the Ukrainian domestic air passenger traffic market.
S. Ramens'ka, National Aviation University, Ukraine.
14. Significance of air alliances for airline industry development.
T. Akimova, O. Namayeshi, National Aviation University, Ukraine.
15. Marketing of relations on industrial markets: the company formation of interest in organization of integrated relations with suppliers in the purchase process.
S.V. Kovalchuk, Khmelnytsky National University, Ukraine.
V.A. Mayevskiy, National Aviation University, Ukraine.
16. Specification of aeronautical information and its classification.
A. Shcherbyna, National Aviation University, Ukraine.

17. Improving the effectiveness of aviation security at air transport enterprises.

Mizyuk V. Ph.D., National Aviation University, Ukraine.

18. Management of innovative development in air transport enterprises.

V.Komandrovskaya, National Aviation University, Ukraine.

19. The financial independence as a condition of corporate security air transport companies.

G.V. Astapova, National Aviation University, Ukraine.

S.T. Piletskaya, Donbass State Machinebuilding Academy, Ukraine.

R.E. Shcherban, Donetsk University of Economics and Law, Ukraine.

SYMPOSIUM 8

HUMAN FACTOR IN AVIATION

Chairman – **A. Gudmanian**, National Aviation University, Ukraine.

8.1 Language modelling of aviation information systems

Chairman – **S. Shurma**, National Aviation University, Ukraine.

Secretary – **Y. Pryshupa**, National Aviation University, Ukraine.

26 September, 13³⁰,
room 8.1412

1. Communication in flight safety: linguistic control of shared problem solving.

A. Gudmanian, G. Encheva, T. Semyhinivska, National Aviation University, Ukraine.

2. Cross-cultural factors in aviation.

N. Borysenko, National Aviation University, Ukraine.

M. Tolmachëva, College of Liberal Arts, Washington State University, USA.

3. Phraseology of radio exchange as an object of the linguistic theory and the theory of speech acts in connection to flights safety.

O. Akmal'dinova, L. Budko, O. Pysmenna, National Aviation University, Ukraine.

4. The arrangement of formal level of «aviation security» term field – the way to communicative clarity and brevity of aviation messages.

I. Burlakova, L. Verchulevska, T. Diachuk, National Aviation University, Ukraine.

5. Language proficiency requirements and aviation safety.

T. Vakulenko, National Aviation University, Ukraine.

6. Language influence on flight safety and efficiency.

O. Zubrytska, T. Bolotna, National Aviation University, Ukraine.

7. Formation of communication skills of aviation specialists.

O. Kovalenko, National Aviation University, Ukraine.

8. Communicative approach to teaching ESP for future aviation engineers.

L. Konoplianyk, National Aviation University, Ukraine.

9. (UN) Safety discourse: an attempt at semiotic analysis of newspaper texts on air travel security problems.

M.-M. Rybalko, National Aviation University, Ukraine.

10. The main components of safety culture in aviation.

O. Shostak, Y. Pryshupa, National Aviation University, Ukraine.

11. Shaping interpreter's competence in aviation sphere.

O. Zhuravliova, A. Golovnia, T. Smirnova, S. Shurma, National Aviation University, Ukraine.

12. Context approach: a new paradigm in the language education of pilots and air traffic controllers.

O. Kovtun, National Aviation University, Ukraine.

8.2 Social, political, moral and psychological components of aviation safety. Psychology of aircraft safe operation and modern ergatic systems

Chairman – **S. Iagodzynski**, National Aviation University, Ukraine.

Secretary – **N. Iskhakova**, National Aviation University, Ukraine.

26 September, 13³⁰,
room 8.803

1. Triumph of human factor.

Iu. Kurlin, Antonov ASTC, Ukraine.

2. Globalized risks of the modern world: terrorism and aviation security.

V. Zholdokov, UN, Switzerland.

T. Shorina, M. Abysova, L. Orokhovska, National Aviation University, Ukraine.

3. Human factor as a key element of aviation safety (in terms of ICAO aviation English instructors professional activities).

L. Baranovska, O. Berezko, National Aviation University, Ukraine.

4. Formation of fitness – culture of students in training-health activities favorites sport.

Ui. Usachev, V. Zinchenko, V. Biletskaia, National Aviation University, Ukraine.

5. Use of autogenic training by paratroopers in preparation for and execution of parachute jumps.

O. Blinov, National Aviation University, Ukraine.

6. Methodology of formation of foreign professionally communicative competence of future bachelors in avionics in the process of their professional preparation.

L. Baranovska, N. Glushanytsia, National Aviation University,

Ukraine.

7. Experimental verification of method for helicopter piloting intensity determination in hover-flight condition

G. Kovalenko, St. Petersburg State University of Civil Aviation, Russia.

V. Kalenov, St. Petersburg State University of Civil Aviation, Russia.

8. Mathematical model of the training method orientation pilot

G. Kovalenko, M. Barabanov, St. Petersburg State University of Civil Aviation, Russia.

9. «Only two pilots» – ergonomic factors of flight danger.

V. Gorbunov, National Aviation University, Ukraine.

10. Advanced professional training of aviation specialists as prerequisite for effective human resource management.

N. Iskhakova, National Aviation University, Ukraine.

11. Integration of humanities and scientific-natural knowledge in the course of professional training of future aviation industry specialists.

E. Luzik, O. Akmalidnova, National Aviation University, Ukraine.

12. Human factor in aviation: professional ethics matters.

M. Rohozha, National Aviation University, Ukraine.

13. Psychological characteristics features of the system error voluntary reporting.

O. Budnikov, E. Savenko, National Aviation University, Ukraine.

14. Assessment of ATC students' psychological readiness for professional activity.

O. Secheyko, V. Riabchenko, National Aviation University, Ukraine.

15. Aviation activity as the object of sociological support.

V. Kornilov, National Aviation University, Ukraine

16. Human factor as a safety element in aviation.
L. Drotianko, O. Skiba, S. Ishchuk, L. Kadnikova, National Aviation University, Ukraine.
17. Role of the human knowledge in aircraft safety improvement.
E. Slastenko, O. Sidorkina, T. Poda, S. Iagodzynskiy, National Aviation University, Ukraine.
18. Quantitative and qualitative characteristics of physical exertion and its influence on the functional condition of future aviation specialists.
I. Vrzhesnevski, N. Turchyna, E. Cherniaev, National Aviation University, Ukraine.
19. Technique of professional – applied physical training of engineer-mechanic students by profession.
V. Fotyniuk, National Aviation University, Ukraine.
20. Aviation and sociology: problems and prospects of interaction. Provision of sociological studies as the technology of aviation activity optimization.
T. Mukovoz, V. Kornilov, National Aviation University, Ukraine.
21. Human engineering aspects of transforming aircrew performance procedures in view of information technology expansion.
O. Petrenko, National Aviation University, Ukraine.
22. Psychological factor of aviation safety in professional reflection.
N. Pobirchenko, I. Tsybulko, National Aviation University, Ukraine.
23. The attempt of philosophic evaluation of aviation security aspects.
U. Koshetar, National Aviation University, Ukraine.

SYMPOSIUM 9

SPATIAL ORGANIZATION OF AIR COMPLEXES

Chairman – **O. Chemakina**, National Aviation University, Ukraine.

Secretary – **N. Avdieieva**, National Aviation University, Ukraine.

26 September, 11⁰⁰,
room 8.002.

1. Problems of humanizing of architectural environment of air terminals on the modern stage of development of association.
O.V. Chemakina, National Aviation University, Ukraine.
V.P. Mironenko, Kharkiv National Municipal Academy, Ukraine.
2. Reconstruction principles of airports complexes objects using the methodology for bases stability modelling.
A.O. Beljatynskij, D.E. Prusov, V.M. Badakh, National Aviation University, Ukraine.
3. Archs in architecture of the airports buildings.
Yu.O. Doroshenko, National Aviation University, Ukraine.
4. Design of industrial facilities support tent service airports.
O.V. Kardash, O.V. Nosyla, National Aviation University, Ukraine.
5. Terraforming of mars planet.
V.M. Pershakov, T.O. Petrova, National Aviation University, Ukraine.
6. Some aspects of NSC «Olimpiyskiy» variant designing on the base of modern technologies.
M. Barabash, V.M. Pershakov, National Aviation University, Ukraine.
7. Introductions mobile module-tranceformars in an architectonically plan structure of airports.
A.A. Khlyupin, National Aviation University, Ukraine.

8. Receptions of defence of dwelling environment are nearby airports.
N.Yu. Avdieieva, National Aviation University, Ukraine.
9. Features integrated security air terminal means of architecture.
M.V. Butyk, National Aviation University, Ukraine.
10. Architectural and planning organization of the air terminal complexes based on the principles of universal design.
L.M. Barmashyna, V.I. Vasylichenko, National Aviation University, Ukraine.
11. Functions in organization of airrelaxation center.
I.A. Lysiuk, National Aviation University, Ukraine.
12. Modeling of personality and activities of air navigation system operator.
Yu.N. Kovalyov, T.F. Shmelova, National Aviation University, Ukraine.
13. The usage of intuition and archetypes in airport design.
V. Mykhalevych, National Aviation University, Ukraine.
A. Morozov, The Taras Shevchenko Kiev National University, Ukraine.
14. Modern trends of architecture and town-planning forming and development prospects of the station complexes.
I.V. Dreval, Kharkiv National Municipal Academy, Ukraine.
M.S. Avdieieva, National Aviation University, Ukraine.
15. Uses of modern technologies in reconstruction of urban space.
N.K. But, National Aviation University, Ukraine.
16. Principles of function-planning organization of urban greening system (on an example of the cities of Donbass).
D.M. Ilchenko, National Aviation University, Ukraine.

17. Sources of development of aviation bases in Ukraine.
Personalities and memorable places.

G.I. Bolotov, M.N. Timoshenko, National Aviation University, Ukraine.

18. Current situation with the transport universities and its ways to improvement.

Y.V. Socolova, National Aviation University, Ukraine.

19. Means of providing the feeling of safety flight in the air terminal interior design.

I. Kuznetsova, National Aviation University, Ukraine.

N. Iida, College of Industrial Technology, Japan.

S. Klein, National Aviation University, Ukraine.

SYMPOSIUM 10

AIR AND SPACE LAW: INTERNATIONAL AND NATIONAL ISSUES OF SECURITY

10.1 Air and space law in international cooperation

Chairman – I. Borodin, National Aviation University, Ukraine

Secretary – A. Nashynets-Naumova, National Aviation University,
Ukraine

26 September, 10³⁰,
Room 1.441

1. Cooperation for prevention of terrorism.

V. Kolpakov, National Aviation University, Ukraine.

O. Ivaschenko, National Academy of Interior, Ukraine.

2. Reformation of the informative system airlines is important direction of administrative reform in Ukraine.

A. Nashynets-Naumova, National Aviation University, Ukraine.

3. Theoretical questions of financial offence.

I. Ustinova, National Aviation University Ukraine.

4. Prominent researchers of space era.
S. Golovko, V. Sobkova, National Aviation University Ukraine.
5. Sale of Moon and functions of law.
O. Myronets, I. Slobodska, National Aviation University, Ukraine.
6. Certain aspects of legal relations in international carriage by air in Ukraine.
V.O. Zuieva, V.B. Cherevatuk, National Aviation University, Ukraine.
7. The problem of air law system
I.M. Sopilko, National Aviation University, Ukraine
8. Theoretical and legal aspects of the use of measures of security for an administrative claim by the stop of the action of the decision of a subject of imperious plenary powers or his separate positions which are appealed, in order of the realization in matters in relation to the appeal of decisions, actions or inactions of subjects of public administration in industry of aviation and use of air space of Ukraine
I.O. Rozum, National Aviation University, Ukraine
9. Administrative coercion in the field of civil aviation safety
S.T. Goncharuk, National Aviation University, Ukraine
10. Aircraft staff as a subject of aviation activity
O. Gusar, National Aviation University, Ukraine

10.2. Legal adjusting of safety of flights

Chairman – **V. Nazarov**, National Aviation University, Ukraine.

Secretary – **A. Potylchak**, National Aviation University,
Ukraine.

26 September, 10³⁰,
room 1.411.

1. Satellite navigation: history and prospects.
O. Begliy, National Aviation University, Ukraine.

2. New aspects of legal regulation of the use of air space in Ukraine.
Z.I. Boyarska, National Aviation University, Ukraine.

3. Administrative-law regulation safety of an aircrafts flights.
Y. Yeryashov, S. Homyachenko, National Aviation University, Ukraine.

4. Legal regulation of flight safety: features of legal regulation.
N.V. Vdovenko, National Aviation University, Ukraine.

5. Access mode to space data as ethical principle of space activities.
M.M. Antonenko, National Aviation University, Ukraine.

10.3. Legal regulation peculiarities of air space use under modern market conditions

Chairman – **N. Korchak**, National Aviation University, Ukraine.

Secretary – **V. Malishko**, National Aviation University, Ukraine.

26 September, 10³⁰,
room 1.411.

1. Antimonopolistic requirements about activity of strategic alliance “Ukrainian aviation group”.

N.M. Korchak, National Aviation University, Ukraine.

2. Aspects of intellectual property right in the aviation field.

N.V. Filyk, O.V. Zubrytska, National Aviation University, Ukraine.

3. Legal regulation of air transportation of passengers and cargo in Ukraine.

V.M. Bilousov, O.V. Zubrytska, National Aviation University, Ukraine.

4. Problems of determination of the concept “safety of civil aviation”.

A.O. Gelich, National Aviation University, Ukraine.

5. Specifics of legal regulation of the civil responsibility of air carries: international-legal aspect.
Kh.V. Kmetyk, N.V. Trotsyuk, National Aviation University, Ukraine.
6. Legal methods of proceeding in solvency of aviation enterprise.
V.P. Kozireva, National Aviation University, Ukraine.
7. Responsibility for violation of legislation in industry of civil aviation.
V.M. Malyshko, National Aviation University, Ukraine.
8. Some peculiarities of the use of personal data.
O.V. Onishchenko, National Aviation University, Ukraine.
9. The formation of professional competence and career development in the system of lifelong education.
N.B. Shust, National Aviation University, Ukraine.
10. Features of consumer protection in air transport of Ukraine and the European Union.
O.O. Starytska, National Aviation University, Ukraine.
11. Features a seniority pension years employed pilots aircraft Ukraine.
S. Vyshnovetska, V. Vyshnovetskyk, National Aviation University, Ukraine.

SYMPOSIUM 11

CONTINUOUS PROFESSIONAL EDUCATION. UPGRADING AND RECURRENT TRAINING

Chairman – **O. Mykhalchenko**, National Aviation University,
Ukraine.

Secretary – **V. Shpylyovyi**, National Aviation University, Ukraine.

26 September, 13³⁰,
room 8.906.

1. Specific approach to foreign students training at the National Aviation University.

I. Zarubinska, A. Polukhin, National Aviation University, Ukraine.

2. Formation of the training system for specific master categories in Ukraine.

***V. Shpylyovyi, T. Shpylova, National Aviation University, Ukraine.
M. Zakharenko, Taras Shevchenko National University, Ukraine.
V. Kobko, Institute of Public Administration for Civil Protection,
Ukraine.***

3. Social responsibility of Ukrainian universities.

I. Ivanova, National Aviation University, Ukraine.

4. Matrix's model of dynamics of knowledge, skills and abilities pilots.

O. Savinov, L. Vdovenko, National Aviation University, Ukraine.

5. Bachelor degree studies in transport and its related fields: attractiveness of engineering study programmes among applicants in Vilnius Gediminas Technical University.

O. Prentkovskis, R. Kliukas, V. Bartulis, Vilnius Gediminas Technical University, Lithuania.

6. Peculiarities of professional environment functioning at the management and art of teaching sub-department.

M. Grynyova, V.H. Korolenko Poltava National Pedagogical University, Ukraine.

V. Shpylyovyi, National Aviation University, Ukraine.

7. Competence in specialist professional training.

H. Sorokina, V.H. Korolenko Poltava National Pedagogical University, Ukraine.

O. Mykhalchenko, National Aviation University, Ukraine.

8. Implementation of methodology of “six sigma” in the preparation process of the Master's in “Specific Categories”.

A. Ovsyankin, V. Yudka, National Aviation University, Ukraine.

9. The problem of preparing future environmentalists to their professional activity in the context of fundamentalization of education.

N. Zakharchuk, National Aviation University, Ukraine.

10. Information and communication technologies in teaching foreign languages in technical university.

V. Kuznetsov, National Aviation University, Ukraine.

11. Causes and ways of overcoming of professional burnout.

S. Kharytska, National Aviation University, Ukraine.

12. Competence and skills of manager as a base of "administrative management" masters degree training model.

N. Chaika, O. Lysenko, National Aviation University, Ukraine.

13. Application of competitive approach in the training system for the project manager during teaching the academic discipline "Intellectual Property".

S. Ordenov, Yu. Kazarinov, National Aviation University, Ukraine.

14. Forms and methods of activation of educational activity of students during training masters in management.

L. Vdovenko, G. Kleshnya, National Aviation University, Ukraine.

15. Formation of competence in project activity planning under conditions of variable resource limitation with the help of "Primavera" software.

I.O. Pylypenko, National Aviation University, Ukraine.

16. Professionalism of a psychologist as an important condition of safety of professional activity of workers of aviation industry.

L. Baranovska, T. Kovalkova, National Aviation University, Ukraine.

12 ROUND TABLE DISCUSSION

ICAO (International Civil Aviation Organization)

Chairperson – **G. Suslova**, National Aviation University, Ukraine

Secretary – **I. Tsymbalista**, National Aviation University, Ukraine

26 September, 10⁰⁰,
room 8.200.

1. Safety Initiatives in ICAO.

Luis Fonseca de Almeida, ICAO European and North Atlantic Office, France.

2. ECAC's Role in Promotion of Aviation Safety, Security and Environment in the European Region.

Salvatore Sciacchitano, European Civil Aviation Conference, France.

3. Cultural Context of Aviation Safety.

Victor Kourenkov, ICAO European and North Atlantic Office, France.

4. Quality and Effectiveness of Training.

Joost Jonker, JAA Training Organisation, The Netherlands.

5. ICAO Uniting Effects in Aviation Safety.

Galyna Suslova, National Aviation University, Ukraine.

6. Human Factors in Aviation Security.
Predrag Djordjevic, Civil Aviation Directorate, Republic of Serbia.
7. Implementation of ICAO Strategies in Aviation Personnel Training.
Sergo Tepnadze, Georgian Aviation University, Georgia.
8. Controlled Flight into Terrain: Human Aspects.
Leonid Stepanov, The State Aviation Administration of Ukraine, Ukraine.
9. Influence of Flight Psychological Resources on Flight Safety.
Olena Dolgova, National Aviation University, Ukraine.
Sergii Tukaev, Taras Shevchenko National University of Kyiv, Ukraine.
10. Improving the Effectiveness of Aviation Security at Air Transport Enterprises.
Valentyn Mizyuk, National Aviation University, Ukraine.
11. Cyber Terrorism in Aviation.
Igor Dobrovolskyi, National Aviation University, Ukraine.
12. Quality Assurance in Civil Aviation.
Andrii Kryzhanovskyi, National Aviation University, Ukraine.
13. Search and Rescue International Procedures.
Yuliya Zagnii, National Aviation University, Ukraine.

ROUNDTABLE
“FUTURE PERSPECTIVES OF EGNOS AND GNSS
TECHNOLOGIES IN UKRAINE”

Chairperson – **V. Kharchenko**, National Aviation University,
Ukraine.

Secretary – **O.I. Benesyuk**, National Aviation University, Ukraine

27 September, 9³⁰,
Academic Council Hall

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