



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

AVIATION IN THE XXI-ST CENTURY

PROGRAM

THE FOURTH WORLD CONGRESS "AVIATION IN THE XXI-st CENTURY"

"Safety in Aviation and Space Technologies"



September 21-23, 2010
 Kyiv, Ukraine



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**THE FOURTH WORLD CONGRESS
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**Safety in Aviation
And Space Technologies**

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KYIV

PROGRAMMING COMMITTEE
The Fourth World Congress
“AVIATION IN THE XXI-st CENTURY”
Safety in Aviation and Space Technologies

Chairman:

Mykola Kulyk Rector, National Aviation University

co-Chairmen:

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Ukraine

Yuriy Alekseyev Director General , National Space Agency of
Ukraine

Dmytro Kiva President-General Designer, Antonov ASTC

Anatoliy Shpak First Vice-President, The National Academy of
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Maksym Luts'kiy First Vice-Rector, National Aviation University

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Dominique Collin Aircraft External Noise Research Network and
Coordination Snecma Moteurs, France

Michael Muth Aerospace Initiative Saxony, Germany

SCHEDULE OF THE FOURTH WORLD CONGRESS
“AVIATION IN THE XXI-st CENTURY”
Safety in Aviation and Space Technology

21.09.2010

8.00-10.00	Registration of participants
10.00-12.10	Plenary session
13.00-18.00	City and river tour

22.09.2010

9.00-13.00	Symposia sessions
13.00-14.00	Lunch
14.15-17.00	Symposia sessions
17.00	Meetings and discussions

23.09.2010

9.00 - 14.00	Symposia sessions
14.00	Closing activities

PLENARY SESSION

21 September, 10:00

- 10:00-10:30 **Mykola Kulyk**, Rector, National Aviation University, Ukraine.
Dmytro Tabachnyk, Minister, Ministry of Education and Science of Ukraine.
Volodymyr Kharchenko, Vice-Rector on Scientific-Research Work, National Aviation University, Ukraine.
Christoph Meyerrose, Managing Director, Lufthansa Technical Training GmbH, Germany.
Boris Eliseev, Rector, Moscow State Technical University of Civil Aviation, Russian Federation.
Jozef Zajac, Rector, The State School of Higher Education in Chelm, Poland.
Sergo Tepnadze, Rector, Tbilisi Aviation University, Georgia.
Adalat Samadov, Vice-Rector on educational issues, National Academy of Aviation, Azerbaijan.
- 10:30-10:50 ICAO Safety Management for States and Service Providers.
Victor Kourenkov, Regional Officer, ICAO EUR/NAT, France.
- 10:50-11:10 Future Trends and New Technologies in the ANTONOV Aircraft Development.
Dmytro Kiva, President-General Designer ANTONOV ASTC, Ukraine.
- 11:10-11:30 Flight Operation of the CFMI Engines on the Boeing and Airbus Aircraft.
Fabien Agnes, Field Service Engineer, CFMI, France.
- 11:30-11:50 AIRBUS Aircraft Operations and Support Outlook.
Iouri Tchekanov, Customer Support Director, AIRBUS, France.
- 11:50-12:10 Support to the Integration of Ukraine in the Trans-European Transport Network TEN-T.
Bert Kraan, Expert, TEN-T Program, The Netherlands.
- 13.00-18.00 City and river tour.

SYMPOSIUM 1

MODERN SPACE AND AVIATION TECHNOLOGIES

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

Secretary – **E. Sapeliyk**, National Aviation University, Ukraine.

SESSION A

Latest technologies for maintaining aircraft airworthiness

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

Secretary – **E. Sapeliyk**, National Aviation University, Ukraine.

22 September, 10⁰⁰,
room 11.229.

1. Influence of the metal samples surface mechanical treatment on their fatigue strength.

B.O. Griaznov, G.S. Pysarenko, Institute for Problems of Strength, NAS, Ukraine.

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

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

2. Determination of kinetic characteristics and wear activation energy "IIIХ15" IN FUEL "TC-L".

A.I. Bogdanovych, V.E. Zimin, Nation Aviation University, Ukraine.

3. Artificial intellect and human reasoning.

E.A. Sapeliuk, I.V. Tkachova, National Aviation University, Ukraine.

4. Inventory management in the aircraft maintenance system.

V.E. Zimin, A.V. Orlov, V.P. Duda, National Aviation University, Ukraine.

5. Forming of structure and tribotechnical properties of electric-spark coating on the basis of TiB₂-SiC.

M. Storozhenko, Y. Brusilo, T. Kuzmenko, N. Shalenko, National Aviation University, Ukraine.

6. Situation control of complex object in conditions with fuzzy source information.

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

7. Estimation of dynamic properties of hydromechanical follow-up drives by using their dynamic stiffness characteristics.

G.Jo. Zayonchkovskiy, V.N. Badakh, National Aviation University, Ukraine.

8. Aerothermodynamic optimization of aero-jet engines for middle and long range aircraft.

Onder Turan, T. Hikmet Karakoc, Anadolu University, Applied Research Center for Civil Aviation, Turkey.

9. Energy analysis of piston-prop aircrafts at various altitudes.

O. Altuntas, T.H. Karakoc, Anadolu University, School of Civil Aviation, Turkey.

A. Hepbasli, Ege University, Turkey.

10. Relational database model for storage of statistical data and diagnosis of GTE with the help of parameters that are registered at operating conditions.

L. Zhuravlova, A. Galstyan, National Aviation University, Ukraine.

SESSION B

Diagnostic systems used in aerospace complex

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

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

22 September, 13³⁰,
room 11.220.

1. Device for temperature change registration by ferrimagnetic crystal.

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

2. Automatic diagnostic systems of power equipment in the aerospace industry.

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

3. Mechanism of detection of discontinuities in pipelines by ultrasonic guides waves.

A.I. Bondarenko, E.O. Paton, Electric Welding Institute of the NAS of Ukraine, Ukraine.

K.V. Sidorenko, S.Y. Gusev, V.V. Shved, National Aviation University, Ukraine.

4. Empirical mode decomposition in signal analysis.

Alexey V. Dergunov, Yuriy V. Kuts, Vitaliy M. Trots, Leonid M. Shcherbak, National Aviation University, Ukraine.

5. Circular data simulation.

Elena D. Blizniuk, Yuriy V. Kuts, Svetlana V. Shengur, Leonid N. Scherbak, National Aviation University, Ukraine.

6. Acoustic emission with nonlinearity of deformation and threshold change of destruction rate of composite material.

S.F. Filonenko, O.P. Kosmach, National Aviation University, Ukraine.

7. Research of influence of thermal resistance of elements of trybosystem on wearproofness of friction units.

S.F. Filonenko, V.N. Stadnichenko, A.P. Stakhova, O.N. Troshin, National Aviation University, Ukraine.

SESSION C

Power and resource of aircraft strength and durability

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

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

22 September, 9⁰⁰,
room 11.220.

1. Mathematic models of aircraft structural reliability calculation

Mykola Kulyk, Olexiy Kucher, Vladimir Miltsov, National Aviation University, Ukraine.

2. Methodical aspects of alloy d16ar deformation relief registration under cyclic loads.

S.R. Ignatovich, S.S. Yutskevych, E.Ju. Doroshenko, S.V. Priluckiy, National Aviation University, Ukraine.

3. Non destructive optical method under full-scale aircraft testing as a method of fatigue life prediction.

M.V. Karuskevich, I.S. Gorbunov, T.P. Maslak, S.V. Schepak, National Aviation University, Ukraine.

4. Investigation of heat-proof composite alloys wear properties at conditions of high temperature fretting corrosion.

O.I. Dukhota, O.V. Tisov, National Aviation University, Ukraine.

5. Model of the elastic indentation of a half-space by a non-ideal berkovich indenter.

V.M. Kindrachuk, Frantsevych Institute for Problems of Materials Science of NASU, Ukraine.

A.O. Kornienko, O.L. Didenko, National Aviation University, Ukraine.

6. Electromagnetic emission of composite materials at high-velocity impact loading.

V.V. Astanin, G.O. Shchegel, National Aviation University, Ukraine.

7. Criterion of stress concentration for evaluation of the lower level of composite material strength loss after a low-speed impact.

I.V. Pavelko, Riga Technical University, The Aviation Institute, Latvia.

M.P. Smolyaninov, SIA RZEC “Aviatest LNK”, Latvia.

8. Analysis of crack formation process at the multiple destruction of aluminium alloy D-16AT.

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

9. Modeling and stability analysis of landing gear by using of LMS software virtual.lab, imagine.lab amesim and matlab\simulink in couple.

O.P. Timokhin, Design bureau “ANTONOV”, Ukraine.

10. Bacteriogenic products using for increasing performance capabilities of the detonation coatings.

V. Labunets, V. Lazariev, T. Klimova, National Aviation University, Ukraine.

E. Korbut, National technical university KPI,

I. Kozlova, Zabolotny Institute of Microbiology and Virology NAS Ukraine, Ukraine.

SESSION D

Aerodynamics and flight safety

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

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

22 September, 14⁰⁰,
room 9.207.

1. Justification of inclination of the thrust vectors of the two-engined UAV power plants.

Mykola Kulyk, Volodymyr Kharchenko, Mykhailo Matiychyk, National Aviation University, Ukraine.

2. The ways for indeterminism overcoming in the analysis of flight crew errors.

Y.V. Gryshchenko, V.D. Gulenko, E.M. Hohlov, National Aviation University, Ukraine.

3. Vitals systems of pilotless aircrafts.

M.P. Matiychik, V.V. Kabanyachyi, K.V. Krivenko, National Aviation University, Ukraine.

4. Acceleration senses and comfort level modeling for the light aircraft flight in the conditions of intensive turbulence.

O.O. Kim, National Aviation University, Ukraine.

5. Approach to flight safety in terms of the subjective analysis.
V.O. Kasyanov, National Aviation University, Ukraine.
A.V. Goncharenko, Kherson State Maritime Institute, Ukraine.
6. Method of evaluation of analytical airworthiness of planes as object manual.
V. Mironovich, National Aviation University, Ukraine.
7. Mathematical modeling of manipulated turbulent shear flows.
Ye.O. Shkvar, V.T. Movchan, T.V. Kozlova, National Aviation University, Ukraine.
8. Unsteady aerodynamic derivative of wing with vortex generators.
E. Udartsev, O. Zhdanov, O. Shcherbonos, National Aviation University, Ukraine.
9. FlowVision-HPC: solving complex aerodynamics problems of aircraft designing.
A.A. Aksenov, V.V. Shmelev, S.V. Zluktov, A.S. Shishaeva, I.V. Moskalev, TESIS Ltd, Russia.
10. Information – analytical systems for early distinguishing inflight nonstandard situations.
A. Saprykin, National Aviation University, Ukraine.
11. An aircraft air speed metering system dynamical error decrease.
A. Saprykin, National Aviation University, Ukraine.
12. Air transport in Poland in the age of world economic crisis.
B. Falda, J. Zajac, The State School of Higher Education in Chelm, the John Paul II Catholic University of Lublin, Poland.
13. Computational fluid dynamics methods used in unmanned aerial vehicle design.
J. Kozuba, T. Muszynski, Technical Sciences of PWSZ in Chelm, Poland.
14. Aviation traditions Lubelzchyzny (East Poland) till 1939.
Z. Gardzinski, Technical Sciences of PWSZ in Chelm, Poland.

SESSION E

Intellectual robotics measuring complexes and systems

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

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

Secretary – **L. Pokid'ko**, National Aviation University, Ukraine.

22 September, 10⁰⁰,
room 11.401.

1. Simulation modeling of accumulated error of discrete drive kinematic chain.

K.Y. Ohrimenko, O.V. Manziura, Cherkasy State Technological University, Ukraine.

K.K. Eichhorn, Fraunhofer Institute for Non-Destructive Testing, Germany.

2. Intellectual robot-technical device for detection of matters.

V.J. Larin, National Aviation University, Ukraine.

3. Application of the guided robot-technical devices is in plant cultivation.

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

4. The computerized control of measuring robotic system.

M.A. Timofeeva, National Aviation University, Ukraine.

V.L. Shkuratnik, Moscow Mountain Institute, Russia.

5. The information model of obstacle avoidance by the mobile robot.

G.P. Mikhneva, Sevastopol National University of Nuclear Energy and Industry, Ukraine.

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

6. Automation of the informative flows in the computer systems management.

O. Boychenko, Crimean Juridical Institute of OSUIA, Ukraine.

V. Kvasnikov, National Aviation University, Ukraine.

7. Vibration monitoring in the robotised engineering systems.
V. Kvasnikov, A. Perederko, National Aviation University, Ukraine.
8. The elaboration of the program of calculation of rate of movement of cleansing device.
V. Kvasnikov, O. Stashynsky, National Aviation University, Ukraine.
9. Application of inductive models for information transformations in a robot is the technical systems of environment monitoring.
S. Golub, B. Khmelniyskiy Cherkasy State University, Ukraine.
V.M. Ilchenko, National Aviation University, Ukraine.
10. Enhancement of dynamic precision of coordinate drives of robotic measuring complexes.
M. Kiselev, Bauman Moscow State Technical University, Russia.
O. Osmolovskiy, National Aviation University, Ukraine.
11. Positioning of aerospace vehicles in multidimensional metric of Galois.
L. Petryshyn, AGH University of Science and Technology, Poland.
12. The application of gas chromatography in examination of materials, substances and products.
Z. Uskova, Moscow Aviation Institute (State University of Aerospace Technologies), Russia.
S. Yarmolenko, National Aviation University, Ukraine.
13. Mathematical model of condensation on the surface.
V. Gorin, National Technical University, Ukraine.
V. Buz, Odessa National University, Ukraine.
A.V. Dzyubanenko, National Aviation University, Ukraine.
14. The analysis of methods of reduction of dimension of the data for the systems of adaptive training.
S.S. Mikhnev, R.O. Peshkurov, Sevastopol National University of Nuclear Energy and Industry, Ukraine.
T.O. Mitsay, National Aviation University, Ukraine.

15. Secondary standard of electrical power for industrial band.
V.P. Kvasnikov, National Aviation University, Ukraine.
O.A. Akhmadov, S.O. Ahmadov, B.P. Galevskiy,
UKRMETRTESTSTANDART, Ukraine.
16. Mobile automatic analyzer of physicochemical parameters.
V.V. Drevetskiy, M.M. Klepach, S.P. Vorobjuk, National University
of Water Management and Nature Resources Use, Ukraine.
V.M. Ilchenko, National Aviation University, Ukraine.
17. The question of rational constructions of devices and machines
for use on the lunar surface.
V.V. Kovan'ko, V.V. Drevetsky, O.V. Kovan'ko, National University
of Water Management and Nature Resources Use, Ukraine.
O.Yu. Shepel, National Aviation University, Ukraine.
18. Trajectory of motion of milling cutter at shape formation of
contour, formed by involute spline.
A.K. Shaposhnikov, A.N. Podgorny Institute for Mechanical
Engineering Problems of NAS of Ukraine, Ukraine.
Yu.V. Zaycev, O. Osmolovskyi, National Aviation University,
Ukraine.

SESSION F

Automation and energy saving on transport

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

Secretary – **H. Tachinina**, National Aviation University, Ukraine.

22 September, 10⁰⁰,
room 10.117.

1. Methods of the resources distribution between the modernization
projects in aviation technics.
O. Samkov, J. Zaharchenko, National Aviation University,
Ukraine.
2. The possible methods to reduce the time required for pilot to
prevent evolution of abnormal condition in flight.

***V. Kazak, H. Tachinina, National Aviation University, Ukraine.
Leyva Kanales Maximo Remigio, Peru.***

3. Intellectual decision support system in stocks resources management of airport.

V.M. Kazak, D.O. Shevchuk, O.V. Savchuk, K.V. Paliy, National Aviation University, Ukraine.

4. System and parametrical quality functioning optimization of avionics logico-dynamic systems under transitive characteristics.

V. Vorobjov, V. Zaharchenko, A. Silnyagin, S. Iljenko, D. Schebetjuk, National Aviation University, Ukraine.

5. Scientific bases and methods of support fail-safe of the integrated complex «crew - the aircraft - the environment».

V. Vorobev, V. Zaharchenko, V. Tikhonov, National Aviation University, Ukraine.

6. Power efficient algorithms of asynchronous-starting electric drives with currents limiting.

N. Krasnoshapka, T. Mazur, National Aviation University, Ukraine.

7. Method of timing distribution in radio networks.

O. Lysenko, A. Miroschnichenko, National Technical University NTUU, Ukraine.

S. Ilyenko, National Aviation University, Ukraine.

8. The method of comparative analysis of soft handover technology in CDMA network.

R. Yukhimchuk, National Technical University NTUU, Ukraine.

S. Ilyenko, National Aviation University, Ukraine.

9. The algorithms of channels' destination in mesh-networks 802.11s.

O. Lysenko, S. Valuiskyi, O. Stepaniuk, National Technical University NTUU, Ukraine.

A. Nefidova, National Aviation University, Ukraine.

10. The optimal control of UAV network topology.
O. Lysenko, S. Valuiskiy, National Technical University NTUU, Ukraine.
O. Panchenko, National Aviation University, Ukraine.
11. Review the use of sensor networks, principles and ways of increasing their effectiveness.
O. Lysenko, I. Nechyporenko, National Technical University NTUU, Ukraine.
V. Golovach, National Aviation University, Ukraine.
12. Synthesis of the optimum observer of the state for the UAV adaptive control system.
O. Lysenko, National Technical University NTUU, Ukraine.
P. Kirchu, National Aviation University, Ukraine.
13. Ways to improve the positioning accuracy of mobile subscribers in cellular networks.
J. Zaharchenko, National Aviation University, Ukraine.
R. Ponedilchenko, National Technical University NTUU, Ukraine.
14. Comparative analysis of information security systems in Wi-Fi networks.
J. Zaharchenko, National Aviation University, Ukraine.
A. Gerasymchuk, National Technical University NTUU, Ukraine.
15. Determination possibilities to use the alternative energy in airports.
V. Kozlov, N. Sokolova, O. Shyrgaj, M. Tsybko, National Aviation University, Ukraine.
16. Diagnosing of controlled dynamic systems using the quorum-method.
A. Aslanyan, A. Belskaya, National Aviation University, Ukraine.

SESSION G

Information security and confidentiality in aviation

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

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

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

22 September, 15⁰⁰,
room 11.311.

1. Modern directions of quantum cryptography.

O.G. Korchenko, S.O. Gnatyuk, National Aviation University, Ukraine.

Ye.V. Vasiliu, Odessa National Academy of Telecommunications n.a. O.S. Popov, Ukraine.

2. Risk management enhances safety programme decision-making.

Galyna A. Suslova, ICAO Training Institute Director, National Aviation University, Ukraine.

3. The research of radiobugs searching.

B.E. Zhurilenko, Z.O. Samosud, National Aviation University, Ukraine.

4. Formation of the objective function in the tasks of information security management.

R.B. Prus, National Aviation University, Ukraine.

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

5. Theoretical basis of analytical methods in cryptanalysis in Markov block ciphers.

S.O. Shmatok, O.K. Yudin, O.S. Shmatok, A.B. Petrenko

National Aviation University, Ukraine.

6. Organization of preshift and intrashift access control of ATC to the resources of information systems.

V.A. Temnikov, A.V. Peteychuk, National Aviation University, Ukraine.

7. Experience with automated data management system for industrial purposes.
P. Pavlenko, A. Khlevnyi, National Aviation University, Ukraine.

8. System engineering of management by information processes of National Aviation University.
A.I. Muzhyk, National Aviation University, Ukraine.

9. Providing of precision of mechanical processing which required on NC machines by means modern information technology.
L.A. Smirnova, National Aviation University, Ukraine.

10. Analysis of the processes of specialists training on the implementation of industrial information technologies.
Y. Zadontsev, National Aviation University, Ukraine.

11. Use of the computer-integrated automated systems for increase of efficiency of production of enterprises of space-air complex of Ukraine.
V.Y. Kudryakov, National Aviation University, Ukraine.

12. Information technology decision support software production orders.
V.V. Treytyak, National Aviation University, Ukraine.

13. The probabilistic model of keys generation of QKD systems.
D.M. Golubchikov, K.E. Rumiantsev, Taganrog Institute of Technology, Southern Federal University, Russia.

SESSION H

Computer technologies

Chairman – ***I.A. Zhukov***, National Aviation University, Ukraine.
co-Chairman – ***N.A. Vinogradov***, National Aviation University, Ukraine.
Secretary – ***V.I. Nadtochii***, National Aviation University, Ukraine.

22 September, 14³⁰,
room 6.202.

1. IT penetration into theoretical and practical support of aircraft operation.
M. Lutskyi, National Aviation University, Ukraine.

2. Method of renewal of the lost packets at transmission in computer networks.

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

V.I. Kubitsky, State Research Center «Airnavigation», Russia.

3. Broadband digital telecommunications service integrated communications, navigation surveillance for air traffic control.

I.A. Zhukov, M.M. Lastovchenko, National Aviation University, Ukraine.

4. The method of adaptive shaping of the traffic flows of calculating networks.

Chang Shu, Northwest University, People Republic of China.

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

5. Method of decision making in situation control system of electrical mounting production.

O. Lytvynenko, K. Tsivinskyy, National Aviation University, Ukraine.

6. Perspectives of spectrum sliding analysis applications.

V.Ya. Krakovsky, National Aviation University, Ukraine.

7. Designing multi-service local area networks on the base of Ethernet switch's communication net.

K. Yakovishin, National Aviation University, Ukraine.

8. Optimization of parameters of unloading system of gyroscopic frames.

A. Ablesimov, National Aviation University, Ukraine.

9. Scenarios adaptivity in the subsystem of environment modeling in the aviation training systems.

S.P. Borsuk, National Aviation University, Ukraine.

10. Dynamics, coding and entropies.

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

11. Computer-aided design of power equipment in the aerospace industry.

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

12. Model of computation for scalable cluster systems.

N.N. Pechurin, A.N. Berezovskiy, National Aviation University, Ukraine.

A.V. Korochkin, NTUU-KPI, Ukraine.

13. Integration technology of hybrid cloud computing infrastructure of the University to perform the tasks of scientific research and education.

M.I. Fuzik, V.V. Klobukov, O.S. Zykov, Research Institute of Integrated Telecommunication Technologies of the National Aviation University, Ukraine.

SYMPOSIUM 2 AERONAVIGATION

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

SESSION A

Communication, navigation, surveillance /air traffic management (CNS/ATM)

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

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

22 September, 14⁰⁰,
room 11.323.

1. Operational concept of required communication performance.

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

2. Joint Aviation Authorities Training Organisation: History and Perspectives of Development.

***Joost Jonker, Joint Aviation Authorities Training Organisation,
The Netherlands.***

3. Information processing models in air traffic control.

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

4. Multicriteria optimization of on-board navigational system technical means complex selection.

***V.M. Sineglazov, Sh.I. Askerov, National Aviation University,
Ukraine.***

5. Construction methodology of information systems with intelligent decision support.

***O.I. Varchenko, E.I. Chumachenko, M.P. Mykhaliuk, National
Aviation University, Ukraine.***

6. EGNOS Introduction to the European Eastern Region as the chance for the air regional transport.

Krzysztof Banaszek, Polish Air Navigation Services Agency, Poland.

Andrzej Fellner, The Silesian University of Technology, Poland.

Pawel Trominski, Air Force Institute of Technology, Poland.

7. Support of efficiency in exploitation systems.

***O.V. Solomentsev, M.J. Zalisky, National Aviation University,
Ukraine.***

8. Computer modelling of electromagnetic compatibility condition on aircraft for communication, navigation and landing equipment.

O. Morgun, National Aviation University, Ukraine.

9. Damping of schuler's oscillations as a way to increase the accuracy inertial gyro vertical.

***N.K. Filiashkin, M.P. Mukhina, National Aviation University,
Ukraine.***

10. Quality estimation of unmanned aerial vehicles automated design.

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

R.K. Kadem, National Aviation University, Ukraine.

11. Method and measuring device of phases difference of infra- and low - frequency ranges.
V.D. Tronko, A.V. Skrypets, O.P. Slobodyan, National Aviation University, Ukraine.
12. Model of the planar transistor for modelling of action of the penetrating radiation.
A.A. Tujakbaev, Academy of Civil Aviation, Kazakhstan.
13. Mathematical model of inertially stabilized platform for aircraft observation equipment.
O.A. Sushchenko, National Aviation University, Ukraine.
14. Assessment of dynamic characteristic of unstable object at constant regime.
V.G. Vovk, N.B. Macuk, D.I. Gordienko, National Aviation University, Ukraine.
15. The automation of radar simulation: principles of construction, the optimization of structure and functioning of simulation software.
S.S. Kostina, National Aviation University, Ukraine.
16. Gasdynamic method of UAV landing.
N. Tupitsin, K. Sydorenko, National Aviation University, Ukraine.
17. The combined method of coordinate determinations using GNSS.
V.H. Melkumyan, T. Malyutenko, National Aviation University, Ukraine.
18. The algorithm of availability determination of navigation satellites on a flight pattern.
A. Sushich, I. Prichodko, National Aviation University, Ukraine.
19. Maintenance of quality of service in the communication network of the following generation.
O.P. Tkalich, O.V. Zharova, O.V. Tkalich, O.P. Nechyporuk, National Aviation University, Ukraine.

20. Algorithm of definition of zones of service of access points of standard IEEE 802.11.
G.F. Konahovich, R.S. Odarchenko, Y.O. Petrov, National Aviation University, Ukraine.
O.P. Velichko, GMA "Borispol", Ukraine.
21. Calculation of radius of action of hidden radio-transmitting devices.
V.G. Potapov, O.O. Artamoshkin, M.S. Odarchenko, P.O. Andruhovich, V.V. Nechyporuk, National Aviation University, Ukraine.
22. Effectiveness of adaptive array under influence of different interferences.
E.A. Kovalevsky, I.V. Vasilyev, National Aviation University, Ukraine.
23. The approach to formation of information-controlling system structure synthesis of operation support of difficult technical systems.
V.I. Chepizhenko, State Scientific & Research Institute of Aviation, Ukraine.
S.V. Pavlova, National Aviation University, Ukraine.
24. Construction of obtaining optical image analytical models of internal structure controlled objects.
L.J. Tereschenko, National Aviation University, Ukraine.
25. Monitoring of private aviation flying.
I.V. Ostroumov, National Aviation University, Ukraine.
26. Weather web service.
N.S. Kuz'menko, I.V. Ostroumov, National Aviation University, Ukraine.
27. Computer analysis of brain characteristics from databases in networks.
O.M. Klyuchko, National Aviation University, Ukraine.

**RADAR METHODS AND SYSTEMS WORKSHOP
(RMSW-2010)**

RMSW 2010 Chairman – **Feliks Yanovsky**.
RMSW 2010 Coordinator – **Yuliya Averyanova**.

SESSION B1

Advanced Radar Methods in Meteorology
Chairpersons – **Piet van Genderen (The Netherlands),
Alexey Vertiy (Turkey)**.

23 September, 10⁰⁰,
room 1.001.

1. Methods of Doppler tomography in radar meteorology.
A.G. Gorelik, V.V. Sterlyadkin, Moscow Institute of Physics and Technology, Russia. (Invited)
2. Application of differential RCS for Measurements of Rain Parameters.
G. Khlopov, S. Khomenko, A. Linkova, O. Vojtovich, Institute of Radiophysics and Electronics of NAS of Ukraine, Ukraine.
3. Generalized multiplicative coefficient in rainfall rate - radar reflectivity factor relationship under assumption of modified gamma drop size distribution and its use within wide range of wavelength and time intervals.
Sergey F. Kolomiets, Moscow Institute of Physics and Technology, Russia.
4. Study of dynamic processes in clouds during rain and rain microstructure by means of multiwavedoppler radars.
Sergey F. Kolomiets, Andrey G. Gorelik, Moscow Institute of Physics and Technology, Russia.
5. Doppler-polarimetric radar meteorological applications.
F. Yanovsky, Yu. Averyanova, National Aviation University, Ukraine.

SESSION B2
Radar Waveforms and Signal Processing
Chairpersons – **Krzysztof Kulpa (Poland),**
Igor Ivanchenko (Ukraine).

22 September, 08³⁰,
room 1.002.

1. Radar waveforms with communication ability.

Piet van Genderen, R. Firat Tigrek, Delft University of Technology, The Netherlands. (Invited)

2. Wind turbines and radar - simulations of effects and conditions for coexistence.

Gerhard Greving, NAVCOM Consult, Germany. (Invited)

3. Comparative design with improvement in performance factor through delay line cancellers in MTI radar.

Isha Suwalka, Suresh Gyan Vihar Universe, Jaipur, Rajasthan, India.

Arti Gupta, Swami Keshwanand Institute of Technology, Jaipur, Rajasthan, India.

4. Radar detection via compressive sensing using partial Fourier coefficients.

L. Anitori, M. Otten, P. Hoogeboom, TNO Defence, Security and Safety, The Netherlands.

5. Analysis of the multiple assignment detection method in radar tracking.

Jacek Karwatka, Telecommunications Research Institute, Warszawa, Poland.

6. Monitoring of biological organisms in environment using modern technical means.

E.M. Klyuchko, National Aviation University, Ukraine.

SESSION B3
Miniature Antenna Design and Field Effect Modeling
Chairpersons – **Georgi Georgiev (Bulgaria),**
Sergey Kolomiets (Russia).

22 September, 10⁵⁰,
room 1.002.

1. A novel reconfigurable dual band microstrip circular patch antenna using coaxial feed.
Shefali Saxena, Komal Soni, Shikha Porwal, Pradeep Chhawchharia, Geetanjali Institute of Technical Studies, India. (Invited)

2. Small size axial-symmetrical antennas for WiMAX applications.
I. Ivanchenko, D. Ivanchenko, M. Khruslov, N. Popenko, Usikov Institute for Radiophysics and Electronics of NAS of Ukraine, Ukraine.

3. Beamforming regularities of the axial-symmetric antennas for WiMAX applications.
I.V. Ivanchenko, M.M. Khruslov, V.L. Pazynin, N.A. Popenko, Usikov Institute for Radiophysics and Electronics of NAS of Ukraine, Ukraine.
L. Lighard, Delft University of Technology, Delft, The Netherlands.

4. The development of norms of frequency and distance separation of digital broadcasting and television of standard t-dab and DVB-T with thin-route radio relay stations.
L.V. Sibruk, D.P. Bondarenko, National Aviation University, Ukraine.

5. Blood flow modeling in narrow capillaries and electric field effect.
E. Aznakayev, V. Kalion, National Aviation University, Ukraine.

SESSION B4
Microwaves and Antenna Techniques
Chairpersons – **Pradeep Chhawchharia (India),**
Oleg Drobakhin (Ukraine).

22 September, 14⁰⁰,
room 1.002.

1. The Tricomi theory of confluent hypergeometric functions and its application to waveguide propagation.

G. Georgiev, M. Georgieva-Grosse, University of Veliko Tirново "St. St. Cyril and Methodius", Bulgaria. (Invited)

2. Multiband resonance generation by feed manipulation in microstrip antenna.

K.S. Alimgeer, S. Muzahir Abbas, H. Zahra, Z. Qamar, Shahid A. Khan, COMSATS Institute of Information Technology, Islamabad, Pakistan.

Raheel Maqsood Hashmi, Politecnico di Milano, Milan, Italy.

3. Cosecant-squared parabolic reflector antenna design for Air and coastal surveillance radars.

Okan Yurduseven, Marmara University, Turkey.

Okan Mert Yucedag, Tubitak National Research Institute of Electronics And Cryptology (Uekae), Turkey.

Ahmet Serdar Turk, Yildiz Technical University, Turkey.

4. Tem horn fed parabolic reflector antenna design for hyper wide band impulse radar systems.

M. Dagan Senturk, Ahmet S. Turk, Yildiz Technical University, Turkey.

5. Polarization Selective Antennas for Radar Application.

Yu. Averyanova, F. Yanovsky, National Aviation University, Ukraine.

SESSION B5
Passive and Semi Active Radar Applications
Chairpersons – **Gerhard Greving (Germany),**
Victor Sterlyadkin (Russia).

22 September, 16¹⁰,
room 1.002.

1. Passive radar for ATC.

Krzysztof Kulpa, Warsaw University of Technology, Poland.
(Invited)

2. Active microwave and millimeterwave ISAR image and millimeterwave passive radar receiver design.

Harun Cetinkaya, Mustafa Tekbas, Ahmet Kizilhan,
Alexey Vertiy, TUBITAK-MRC, Material Institute, International
Laboratory for High Technologies (ILHT), Turkey.

3. Multifrequency measurements in millimeter wave range as a tool of artificial structures research.

O.O. Drobakhin, V.V. Alekseev, D.Yu. Saltykov,
A.D. Saltykov, Dnepropetrovsk, National University, Ukraine.

4. Comparison of using SAR processing and Hough transform as a methods for GPR radar image creation.

Mariusz Zych, Warsaw University of Technology, Poland.

5. The radio sources coordinates estimation by the range-difference method using low-orbit constellation of small satellites.

M.V. Mironov, E.P. Voroshilin, G.S. Sharygin, Tomsk State
University of Control Systems and Radioelectronics, Russia.

SYMPOSIUM 3

INTERNATIONAL INTEGRATIVE PROCESS IN AIRSPACE AND AVIATION

Chairman – **I.V. Zhaloba**, National Aviation University, Ukraine.

Secretary – **O.Yu. Kondratenko**, National Aviation University,
Ukraine.

22 September, 10⁰⁰,
room 7.102.

1. Contemporary macroeconomic policy in Ukraine.
T. Bilenko, National Aviation University, Ukraine.
2. Informational sovereignty of the state: theory-methodical analysis.
Rzhavska Nina, National Aviation University, Ukraine.
3. Scandinavian Ethnodesigner Search for a Comfortable Surrounding.
**T.V. Malik, Kyiv State University of Arts and Crafts and Design
named after M.Boychuk, Ukraine.**
4. Genesis of conflicts in international economy and international
anti-terrorist law.
V.F. Antipenko, National Aviation University, Ukraine.
5. Opportunities to partake in international cooperation for Ukrainian
engineers of aircraft engines.
G. Klimenko, National Aviation University, Ukraine.
6. The global financial crisis and financial position of Ukraine.
V. Klymenko, National Aviation University.
7. Some challenges of modern state of international informational
security.
Yu. Akchurin, National Aviation University, Ukraine.
8. Informative providing of higher public authorities of Ukraine.
O.Yu. Kondratenko, National Aviation University, Ukraine.

SYMPOSIUM 4 ENVIRONMENT PROTECTION

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

22 September, 9⁰⁰,
room 5.601.

1. Aircraft-noise performances data base for aircraft of FSU design and production.

O. Zaporozhets, G. Golembievskyy, National Aviation University, Ukraine.

O. Kartyshev, State Scientific-Research Institute of Civil Aviation, Russia.

A. Jagniatinskis, Gediminas Technical University, Lithuania.

2. Commercial aircraft noise modelling effects of air traffic and airport infrastructure changes.

S. Khardi, Y. Ladegaillerie, INRETS-LTE, France.

E. Konovalova, National Aviation University, Ukraine.

M. Hammadich, École Centrale de Lyon, France.

3. Acoustic wave plane's engine jet generation.

M. Houacine, INRETS-LTE, France.

M. Hammadich, LMFA, University of Lyon 1, France.

4. Infrasonnd danger in aviation.

S. Soroka, Lviv center of Institute of space research NAS and NSA of Ukraine, Ukraine.

5. Development of software for calculation of noise of the system "vehicle's tires – road surface".

E.A. Komlik, A. Vasilyev, Togliatti State University, Russia.

6. Estimating the long-term economic and ecologic impact of the inclusion of international aviation into the EU emissions trading scheme for the limitation of CO₂-emissions.

M. Schaefer, German Aerospace Centre (DLR), Institute of Propulsion Technology, Germany.
J. Scheelhaase, W. Grimme, S. Maertensb, German Aerospace Centre (DLR), Air Transport and Airport Research, Linder Hoehe, Cologne, Germany.

7. State system of assessment of greenhouse gases emission in aviation sector.

Oleg Kartyshev, Aleksandr Taranichev, Aviation Ecological Centre, State Scientific-Research Institute of Civil Aviation, Russia.

Oleksandr Zaporozhets, Head of the Chair of Human Safety, National Aviation University, Ukraine.

8. Using analytical hierarchy process for aviation environmental decision making and interdependency modeling.

N. Duchene, D. Pearce, ENVISA, France.

9. The basic safety requirements to personnel at performance of aviation-chemical works.

L.A. Zagurska, National Aviation University, Ukraine.

10. Aircraft and airport de-icing toxicological impact on environment.

V. Pavlysh, O. Zaporozhets, National Aviation University, Ukraine.

11. Interacting neurons 2D-modeling.

E.G. Aznakayev, A.V. Vishnevsky, National Aviation University, Ukraine.

12. Simulation of switching processes in cardiomyocytes.

E.G. Aznakayev, D.E. Melnikov, National Aviation University, Ukraine.

13. The double channel air based hyperspectrometer.

V.V. Donets, I.V. Voloschuk, Corporation Scientific-Production Association Arsenal, Ukraine.

V.A. Yatsenko, O.V. Semeniv, Space Research Institute NASU-NSAU, Kyiv, Ukraine.

S.M. Kochubey, T.L. Kazantsev, Institute of Plant Physiology and Genetics, National Academy of Sciences of Ukraine, Kyiv, Ukraine.

14. Gas turbine & SOFC APU based CO₂ emissions in Turkey and Ukraine.

F. Tunca, O. Altuntas, T.H. Karakoc, Anadolu University, Turkey.

SYMPOSIUM 5

AVIATION CHEMMOTOLOGY

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

co-Chairman – **S. Bojchenko**, National Aviation University, Ukraine.

Secretary – **U. Nikitchenko**, National Aviation University, Ukraine.

23 September, 9⁰⁰,
8a building hall.

1. Ecological perspectives of diesel fuel use for reduction of pollutant and CO₂ emissions.

Xavier Montagne, Fuels, Lubricants and Emissions Department Head, IFP, Rueil Malmaison Cedex, France.

2. Aircraft scrap tires treatment and utilization: trends and perspectives.

Julia Nikitchenko, National Aviation University, Ukraine.

Hiller Andreas, Technical University of Dresden, Germany.

3. On some reasons of faster formation of slime in turbine oils.

Andrej Nikitin, National Aviation University, Ukraine.

4. Study on Synthesis and Regeneration of High Oil-Absorption Resin.

Wu Yao, Shi Jian Bo, Lin Zhong Wei, Civil Aviation University of China, Tianjin Binhai International Airport, China.

5. Ecologization of fuel power complex objects.
Anna Yakovleva, Darya Markiv, Oksana Vovk, Larysa Cherniak, National Aviation University, Ukraine.
6. System-defined and chemmotological analysis of problem for selection and optimization of new fuel composition for aviation propulsion units.
Leonid Yanovsky, FGUP «Central Institute of Aircraft Engines named by P.I. Baranov», Russian Federation.
7. Ultrasound analyzer for determination of change of chemical composition of environment.
Oleksander Zubchenko, National Aviation University, Ukraine.
8. Biodiesel fuel related properties of fats and oils.
Evgeny Novoselov, National Aviation University, Ukraine.
9. Calculation the thickness of the pollution layer on the absorbing plates of gravity filter.
Sergij Puzik, Volodimir Manzii, Emir Aznakaiev, Vitalij Shevchuk, National Aviation University, Ukraine.
10. Research of steel-brass friction pair tribological characteristics in magnetic field.
Mikhajlo Svirid, Svetlana Zadneprovskaja, Ludmila Pryimak, National Aviation University, Ukraine.
11. Chemmotological scientific and pedagogical school within the system of information support of educational process.
Sergey Boychenko, Alexander Aksyonov, Vyacheslav Teryokhin, National Aviation University, Ukraine.
12. New approaches to improve a thermo-oxidative stability of aviation turbine lubricants on the oligomeric base.
Oleg Zverev, Russian Oil Refinery National Research Institute, Russian Federation.

13. Mechanical stability of lubricating greases and its assessment.

Mikola Zakharchuk, Azov Greases and Oils JSC, Ukraine.

*C. Coopman, European Lubricating Greas Institute,
The Netherlands.*

14. Features of distribution of fractional composition contamination in turbine oils at the operational process.

Andrej Nikitin, National Aviation University, Ukraine.

15. Quality of fuels for air-feed jet engines.

Sergey Boychenko, National Aviation University, Ukraine.

Irina Shkilnuk, Ukrainian research and educational center of chemmology and certification of fuels, lubricant and technical liquids, Ukraine.

Anatoly Lastovets, Ukrainian research and educational center of chemmology and certification of fuels, lubricant and technical liquids, Ukraine.

16. Tribo-cavitation for aviation kerosene.

A.F. Aksenov, A.U. Stelmakh, K.K. Badir, National Aviation University, Ukraine.

SYMPOSIUM 6

ECONOMICS IN AVIATION

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

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

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

22 September, 10⁰⁰,
room 2.403.

1. Development of hierarchical structure of criteria for expert estimation of efficiency of unaviation activity in airports by method of analysis of hierarchies of Saati.

T. Oleshko, S. Chumachenko, N. Ratushna, National Aviation University, Ukraine.

2. Prospects of growth of world regional competitiveness of hi-tech production.
Y. Gollyak, National Aviation University, Ukraine.
3. Current trends and main directions for development in the aviation industry world integration groups.
V. Matvieiev, O. Lozhachevska, M. Novykova, National Aviation University, Ukraine.
Oleg Chor, Canada-Ukraine Business Council, Canada.
4. Modern approaches to airline revenue management.
A. Vinyukov-Proshenko, National Aviation University, Ukraine.
5. Organizational culture is of effective activity of aviation enterprises.
T. Dyachenko, National Aviation University, Ukraine.
6. Low Cost Carrier's Loyalty Programs in Turkey.
Ali Emre Sarilgan, Anadolu University, Turkey.
7. Charter Airlines in Turkey.
Ali Emre Sarilgan, Anadolu University, Turkey.
8. Problems of Ukrainian airlines in the market of air transport.
G. Zhavoronkova, V.M. Degtyar, National Aviation University, Ukraine.
9. Measures of liberalization in development of aviation industry of Ukraine.
O. Krakovetska, National Aviation University, Ukraine.
10. Conduct of passengers in the market as a component aviation services transport market service.
S.V. Petrovska, National Aviation University, Ukraine.
11. Influence of macrostructural biases of domestic economics on aviation industry growth.
M. Yanchuk, National Aviation University, Ukraine.

12. Finance management of airport development in Ukraine.
T. Akimova, National Aviation University, Ukraine.
13. The strategic directions of Ukraine airports development and functioning in modern conditions.
Y. Palamarchuk, I. Shevchenko, National Aviation University, Ukraine.
14. The concept of management of economic safety of the enterprise in the global information field.
A.I. Kosarev, V. Pariy, National Aviation University, Ukraine.
15. Franchising as a tool of the implementation of vertically integrated systems in aviation.
S. Ramens'ka, National Aviation University, Ukraine.
16. Trends of aviation sector development.
I. Sadlovskaya, N. Degtyar, National Aviation University, Ukraine.
17. Marketing research in the market of repair airports introduction.
V.P. Kvasnikov, I.V. Zhudova, O.V. Chaika, O.L. Rybalko, National Aviation University, Ukraine.
18. Foreign investments in Ukraine: problems and solutions.
V.P. Kvasnikov, National Aviation University, Ukraine.
V.I. Zapotochniy, T. Shevchenko KNU, Ukraine.
19. Turkish domestic airline market overview and dynamics.
Yusuf Sengur, Anadolu University, School of Civil Aviation, Turkey.

SYMPOSIUM 7
HUMAN FACTOR IN AVIATION

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

co-Chairman – **O. Petrenko**, National Aviation University, Ukraine.

Secretaries – **Ia. Ponomarenko, V. Prystupa**,
National Aviation University, Ukraine.

22 September, 10⁰⁰,
room 8.200.

1. Minimizing human error (language related).

Olena Petrashchuk, National Aviation University, Ukraine.

2. Integrative courses as a methodological foundation in the system of continuous education of the twenty-first century.

E. Luzik, N. Ladogubets, National Aviation University, Ukraine.

3. Evolution of views on the human factor in aviation.

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

4. Principle of the subjective entropy maximum and safety of active systems.

V.A. Kasyanov, U.T. Guz, I.V. Prohorenko, T.V. Perzhynskaya
National Aviation University, Ukraine.

5. Transfer of training problem in Ukrainian air companies.

Oleg Budnikov, AeroSvit Airlines, Ukraine.

6. How to teach speaking: a crucial methodic problem.

Vitaliy Prystupa, National Aviation University, Ukraine.

7. Aviation English Teaching in the Ukrainian Context.

Yu. Korchenyuk, National Aviation University, Ukraine.

8. English for specific purposes and content teacher collaboration.

Oksana Pytel, National Aviation University, Ukraine.

9. Psychological component in the professional selection of ATM specialists.

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

10. Aviation English in communication safety.
Grihno Tania, National Aviation University, Ukraine.
11. Psychological aspects of communication in airplane crews.
Olena M. Ichanska, National Aviation University, Ukraine.
12. Psychological approaches to the professional values systems of the aviation personnel-to-be generating.
Liubov M. Denysiuk, National Aviation University, Ukraine.
13. Communicative base formation of aviation experts within the context of human factor.
Povoroznik Kate, National Aviation University, Ukraine.
14. Human factors training development in TRANSAERO AIRLINES.
A.V. Zakharov, TRANSAERO AIRLINES, Russia.

SYMPOSIUM 8

AIR AND SPACE LAW: INTERNATIONAL AND NATIONAL ISSUES OF SECURITY

Chairman – **N.B. Shust**, National Aviation University, Ukraine.

SESSION A

National legislation harmonization with EU regulations in the area of civil aviation. Legislative regulation of the world market of space services and technologies

Chairman – **N.V. Daraganova**, National Aviation University, Ukraine.
Secretary – **D.V. Gonchar**, National Aviation University, Ukraine.

22 September, 9⁰⁰,
room 1.443.

1. Application of the Convention about the laws collisions, which touch the testaments form.

L.V. Kozlovska, National Aviation University, Ukraine.

2. The legal regulation of the world space market and national security issues of Ukraine.
O. Begliy, National Aviation University, Ukraine.
3. The institute of lobby in the field of civil aviation.
V.M. Ternavska, National Aviation University, Ukraine.
4. On liberalization of Russian legislation.
B.P. Eliseev, Moscow State Technical University of Civil Aviation, Russian Federation.
5. Particularities of legal regulation of insurance contract in civil aviation.
N.V. Trotskyuk, National Aviation University, Ukraine.
6. Efficiency of functions of law in modern Ukraine.
O.M. Myronets, National Aviation University, Ukraine.
7. Problems of transformation of the article of labour right on modern stage of development of society.
S.V. Vyshnovetska, National Aviation University, Ukraine.
8. An agreement on implementation of research or research-design and technological works as mean of introduction of innovative technologies in civil aviation.
M.M. Velykanova, National Aviation University, Ukraine.
9. Prosecuting agency in the system of state authorities.
P.V. Shumsky, T.M. Bolotna, National Aviation University, Ukraine.
10. Legal theoretical approaches to the conception of intellectual property.
N.V. Filyk, O.V. Zubrytska, National Aviation University, Ukraine.
11. Features of international and national agreement of air transportation (comparative description).
O.O. Starytska, National Aviation University, Ukraine.

12. Legal regulation of transnational industrial and financial groups operation in the field of aviation technology production and exploitation within the CIS.

K.V. Kmetyk, National Aviation University, Ukraine.

13. Flexible use of airspace concept.

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

14. Information security as part of civil aviation security.

Olga O. Zolotar, National Aviation University, Ukraine.

15. Question of administrative and legal status of aircraft commander of Ukraine.

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

16. On the legal status of a state civil aviation authority.

Y. Yeryashov, S. Homyachenko, National Aviation University, Ukraine.

17. Legal regulation of currency risks on airtransport at the interstate and national levels.

O. Sheremeteva, National Aviation University, Ukraine.

18. New challenges of national security: joint national telecommunication system.

O. Begliy, National Aviation University, Ukraine.

Y.A. Voloshko, CJSC “B.C. Toms & Co”, Ukraine.

19. The fair and responsible use of the geostationary orbit: towards public-private partnership.

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

Y.S. Klymenko, Volodymyr Koretskiy Institute of State and Law of the National Academy of Sciences of Ukraine, Ukraine.

SESSION B

Human rights in air space use

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

Secretary – **A. Nashinets'-Naumova**, National Aviation University,
Ukraine.

22 September, 15²⁰,
room 1.411.

1. Legal principles of dangerous goods transportation by air transport.
N. Korchak, I. Tymkovych, National Aviation University, Ukraine.
2. Description of the basic classification criteria of the offences in a sphere of air transport.
I. Sopilko, National Aviation University, Ukraine.
3. Problem of legal status of airport as airline.
V. Kozyreva, A. Garbus, National Aviation University, Ukraine.
4. Information security in the modern world as the object law object of public administration (methodological aspect).
V. Tymbalyuk, National Aviation University, Ukraine.
V. Gurkovskyy, Research Center of Legal Information of the Academy of Sciences, Ukraine.
5. Object and article of information law: the problems of definition and significance of them in the field of civil aviation.
V. Tymbalyuk, R. Kontsevov, National Aviation University, Ukraine.
6. Actual problems of administrative-legal regulation of corporations activity in Ukraine.
S. Goncharuk, A. Nashynets'-Naumova, National Aviation University, Ukraine.
7. An evolution of the legislative regulation of sphere of levy of taxes (obligatory payments) in Ukraine.
V. Marchenko, National Aviation University, Ukraine.

8. International aspect of criminal liability for fraud.

I. Rochina, National Aviation University, Ukraine.

O. Kryshevych, KNUI, Ukraine.

9. Contemporary problems of combating terrorism

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

A. Filonov, Head of the Department of Constitutional and international law of the Donetsk Institute of Law University of Lugansk University of Internal Affairs E.A. Didorenka, Ukraine.

10. The author analyzed the features of competences of professional qualifications for future aviation professionals.

N.B. Shust, National Aviation University, Ukraine.

11. Defence of proofs is in criminal business on legislation of Ukraine.

O.I. Motlyakh., V.P. Verchenko, National Aviation University, Ukraine.

12. Impact of the administrative law enforcement on the state of personal safety.

P.V. Dikhtievskiy, N.A. Osypenko, National Aviation University, Ukraine.

SYMPOSIUM 9

CONTINUOUS EDUCATION. UPGRADING AND RECURRENT TRAINING

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

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

22 September, 11⁰⁰,
room 11.002.

1. The integral method of estimating knowledge in the process of aviation specialists training.

V.D. Shpylyovyi, Yu.I. Kazarinov, S.S. Ordenov, National Aviation University, Ukraine.

2. The model of pilot skills training.

O. Savinov, National Aviation University, Ukraine.

V. Razgaitis, BFA training center, Lithuania.

3. Factors influencing process of integration of additional professional educational system.

L. Vdovenko, National Aviation University, Ukraine.

I. Kalachova, JSC “CAM & CONS” Continuing airworthiness Management and Consulting, Lithuania.

4. Continuous education in air transport safety.

V. Titska, National Aviation University, Ukraine.

A. Mamanazarov, The Branch of Lomonosov Moscow State University, Uzbekistan.

SYMPOSIUM 10

AVIATION CONGRESS SCHOOL of young scientists in problems of ENVIRONMENT PROTECTION FROM CIVIL AVIATION IMPACT

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

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

22 September, 14⁰⁰,
room 5.601.

1. Method to Assess Third Party Risk around Airports.

Inna Gosudarska, National Aviation University, Ukraine.

2. Short-term Forecasting of Noise Abatement Procedures Implementation.

Kateryna Kazhan, National Aviation University, Ukraine.

3. Passive Vibroacoustic Control by Attached Concentrated Masses.

Vitaliy Makarenko, National Aviation University, Ukraine.


4. Designing an Life Cycle Assessment (LCA) Project.
Iryna Vasiljeva, National Aviation University, Ukraine.
5. Modeling of Sound Fields in the Shadow Zone between Noise Barriers and Building Facades.
Yulija Shevchenko, National Aviation University, Ukraine.
6. GIS Application for Calculation Prediction of Electromagnetic Situation of Radiolocation Stations.
N.O. Lyudvichenko, National Aviation University, Ukraine.
7. Electromagnetic Radiation Inside the Office Buildings of Airports
A.V. Lukyanchykov, National Aviation University, Ukraine.
V.A. Glyva, Kyiv National University of Building and Architecture, Ukraine.
8. CFD Simulations of Aircraft Engine Jets as a Monitoring Tool for Local Air Quality Control.
Kateryna Synylo, National Aviation University, Ukraine.
9. Calculation of Pollutants Concentration in the Airport Area with PEGAS LAQ Tool and Comparative Analysis of Measurement and Computational Results.
Y. Medvedev, JSC, Center of Civil Aviation Environmental Safety, Russia.
10. Application Data on Meteorological Conditions in the Terminal Area in Purpose to Predict the Effectiveness of the Use of Aircraft's Takeoff/Landing Directions.
A.A. Taranichev, The State research institute of civil aviation, Russia.
11. Computerized Approach to the Question of Sanitary-Hygienic Zones Development of Commercial Aviation Airports.
D.Sh. Sjunjaeva, JSC, Center of Civil Aviation Environmental Safety, Russia.
12. Complex approach to climate gas emission control in civil aviation.
O. Grasko, National Aviation University, Ukraine.

Notes



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