



Національна академія  
медичних наук  
України



ВГО "АМЕТУСТ"  
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**ПЕРШИЙ ВСЕУКРАЇНСЬКИЙ З'ЇЗД  
"МЕДИЧНА ТА БІОЛОГІЧНА  
ІНФОРМАТИКА І КІБЕРНЕТИКА"  
з МІЖНАРОДНОЮ УЧАСТЮ**

**FIRST ALL-UKRAINIAN CONGRESS  
"MEDICAL AND BIOLOGICAL  
INFORMATICS AND CYBERNETICS"  
with INTERNATIONAL PARTICIPATION**

**ЗАПРОШЕННЯ ТА ПРОГРАМА  
Invitation and Program**

23 - 26 червня 2010 р., Київ, Україна  
June 23 - 26, 2010, Kyiv, Ukraine

**ORGANIZERS of the CONGRESS**

- |  |   |
|--|---|
| □ National Medical Academy of Post-Graduate Education named after P.L. Shupyk  | □ Vinnytsia National Technical University   |
| □ All-Ukrainian public organization «Association of Experts in Medical Informatics, Statistics and Biomedical Equipment» | □ Institute for Information Recording, NAS of Ukraine                                   |
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| □ National specialized hospital for children «Okhmatdyt»   | □ Institute of Cybernetics named after V.M. Glushkov, NAS of Ukraine                    |
| □ National Medical University named after O.O. Bohomolets  | □ Institute of Technical Mechanics, NAS of Ukraine and National Space Agency of Ukraine |
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**SESSION SCHEDULE of the FIRST ALL-UKRAINIAN CONGRESS  
with international participation  
«MEDICAL AND BIOLOGICAL INFORMATICS  
AND CYBERNETICS»**

*Wednesday, June 23<sup>rd</sup>, National Medical Academy of Post-Graduate Education named after P.L. Shupyk (9, Dorogozhytska Str.; subway station «Dorogozhichi»)*

10.00 - 17.00 Registration

*Thursday, June 24<sup>th</sup>, Budynok Kino, Red Hall (6, Saksaganskogo Str.; subway station «Palats Sportu»)*

from 09.00 Registration

10.00 - 10.30 Opening Ceremony. Honouring prominent scientists and important scientific research

10.30 - 14.00 PLENARY SESSION I

12.00 - 12.15 Coffee-break

14.00 - 15.00 Lunch

15.00 - 18.00 PLENARY SESSION II

16.30 - 16.45 Coffee-break

18.00 - 19.00 Discussion

*Friday, June 25<sup>th</sup>, National Medical Academy of Post-Graduate Education named after P.L. Shupyk (9, Dorogozhytska Str.; subway station «Dorogozhichi»)*

10.00 - 13.00 Scientific Symposiums

13.00 - 14.00 Lunch

14.00 - 18.00 Scientific Symposiums (Continued)

15.45 - 16.00 Coffee break

*Saturday, June 26<sup>th</sup>, National Medical Academy of Post-Graduate Education named after P.L. Shupyk, Assembly Hall (9, Dorogozhytska Str.; subway station «Dorogozhichi»)*

10.00 - 12.00 CLOSING PLENARY SESSION.  
Adoption of Congress Resolution

12.00 - 13.00 Closing Ceremony

**PROGRAM**

*Thursday, June 24<sup>th</sup>, Budynok Kino, Red Hall  
(6, Saksaganskogo Str.; subway station «Palats Sportu»)*

from 09.00 Registration

10.00 - 10.30 Opening Ceremony. Honouring prominent scientists and important scientific research

10.30 - 14.00 PLENARY SESSION I

10.30 - 10.50 Main directions of informatization of Health Care System of Ukraine. *Z. Mytnyck, V. Lazoryshynets, M. Banchuk, Yu. Voronenko, O. Mintser, O. Mayorov, Ministry of Health of Ukraine*

10.50 - 11.20 Benefit of modern e-Health applications in the Ukrainian Health Care System. *C. Zaugg, Swiss Centre for International Health, Swiss Tropical and Public Health Institute, Ukraine-Swiss Mother and Child Health Programme*

11.20 - 11.40 Development of basic legal documents in the CIS countries for setting-up compatible telemedicine systems. *B. Kristalnyj, Committee on Information policy, information technology and communication, State Duma of Russian Federation/ M. Natenzon, Regional working group of the CIS countries on telemedicine, Russian Federation*

11.40 - 12.00 Strategy of progressing research in the sphere of medical informatics and cybernetics. *O. Mintser, «Medical informatics and information technologies», Problem commission of the Ministry of Health of Ukraine and the NAMS of Ukraine*

12.00 - 12.15 Coffee-break

12.15 - 12.30 Russian experience in telemedicine. *A. Selkov, Russian association of Telemedicine, Russian Federation*

12.30 - 12.45 Problems of introducing information-communication technologies in Ukraine and ways of solving them. *A. Semenchenko, State committee of informatization of Ukraine*

## MEDICAL AND BIOLOGICAL INFORMATICS AND CYBERNETICS

- 12.45 – 13.15 Creation and Implementation of IT-system «Blood Bank» within cooperation with European Development Bank. *Dr. C. Botea, V. Timus, Infoworld SRL, Moldova*
- 13.15 – 13.30 Innovation technologies of managing regional health care system. *R. Sungatov, ATRIA, International holding – «ATRIA Ukraine», Russian Federation - Ukraine*
- 13.30 – 13.45 On long-term biological data storage. *V. Petrov, Institute for Information Recording of the NAS of Ukraine*
- 13.45 – 14.00 From traditional to hybrid electronic medical records. *B. Kobrinskiy, FSE «Moscow scientific research institute for pediatrics and pediatrics surgery», Russian Federation*
- 14.00 – 15.00 Lunch
- 15.00 – 15.15 Experience of telemedicine technologies introduction within framework of realization of Ukrainian Swiss Mother and Child Health Program. *D. Dobrianskyj, Lviv National Medical University, Ukraine, Ukraine-Swiss Mother and Child Health Programme*
- 15.15 – 15.30 Providing access to medical knowledge - a foundation for processes supporting continuous medical education. *S. Dovgyj / O. Stryzhak, Institute for Telecommunications and Global Information Space of the NAS of Ukraine*
- 15.30 – 15.45 3<sup>RD</sup> Generation teleambulance configuration focus on progress. *M. Adeyinka, Laboratory for Biomedical Informatics, Netherlands*
- 15.45 – 16.00 Non-invasive biomonitoring of human health: Technical developments in breath analysis. *V. Vasilenko, Nova University of Lisbon, Portuguese Republic*
- 16.00 – 16.15 Role of informatics in optimization of health care system. *O. Bogomolets, Dr. Bogomolets' Institute of Dermatocosmetology, Ukraine*

## MEDICAL AND BIOLOGICAL INFORMATICS AND CYBERNETICS

- 16.15 – 16.30 Analysis of test application of model of financial reimbursement to hospitals based on DRG methodology. *S. Dyachenko, CIET Ltd, Ukraine*
- 16.30 – 16.45 Coffee-break
- 16.45 – 17.00 Intensive technologies in rehabilitology. *V. Kozyavkin, National Medical Academy of Post-Graduate Education named after P.L. Shupyk*
- 17.00 – 17.15 Verbal and non-verbal modeling of information training environment and its algorithmic construction in the system of medical specialists training. *V. Shevchenko, Ukrainian Scientific Center for Development of Information Technologies of Ministry of Education and Science of Ukraine*
- 17.15 – 17.25 Computer technologies supporting education quality monitoring system. *I. Bulakh / M. Mruga, Testing Center of Ministry of Health of Ukraine*
- 17.25 – 17.40 Key directions of informatization of military medicine. *V. Shevchenko, National academy of defense of Ukraine*
- 17.50 – 18.00 Building up a Corporate medical e-network of Poltava city. *S. Kotov, chief of Health Care Administration in Poltava city / L. Kuroedov, head doctor of the 4-th city hospital, Poltava*
- 18.00 – 19.00 Discussion

**Scientific Symposiums**

**June 25<sup>th</sup>, 2010**

**National Medical Academy of Post-Graduate Education  
named after P.L. Shupyk**

10.00 – 18.00, Assembly Hall

**Medical information systems. Medical e-passport.  
Implementation of medical informatics and medical  
cybernetics methods in health care.**

*Moderators:* O. Mintser, O. Palagyn, A. Kryuchyn, B. Kobrinskiy,  
A. Semenchenko, O. Panchenko, L. Babintseva

1. Technology of developing medical electronic passport. A. Kryuchin, *Institute for Information Recording of the NAS of Ukraine.*
2. Options of practical application of medical electronic passport in health care system of Ukraine. S. Dyachenko, *CIET Ltd, Ukraine.*
3. Electronic medical record of patient as an important means of mutual data exchange. V. Kachmar, *Eleks Ltd, Ukraine.*
4. Analysis of variants of technical decisions in creation of medical electronic passport. O. Udelov, *Author Ltd, Ukraine.*
5. Personal medical data medium with USB interface. I. Gorbov, *Institute for Information Recording of the NAS of Ukraine.*
6. Results of implementation of medical informational system. N. Litvinenko, *Arte-Soft Ltd, Russian Federation.*
7. Development of integrated reference search system with elements of artificial intelligence (electronic consultant). A. Galushka, *Research institute of problems of military medicine of Armed Forces of Ukraine.*
8. Experience of introduction of medical informational system «Ariadne». I. Khusainova, *Decision Ltd, Russian Federation.*
9. Directions of improving prophylactic medical examination system of civil servants of Ukraine. N. Ezhel, *State Directorate for Affairs of President of Ukraine.*
10. Experience of building an international partner network for replication of medical information system. A. Boreiko, *Post Modern Technology Ltd, Russian Federation.*
11. Automatization of treatment, administrative and managerial activity of health facility based on standard SAP software solution. O. Belyachenko, *Soft-Rating Consult Ltd.*

12. Public health monitoring: problems of measuring its biological and social-psychological components. R. Bakhtijarov, *Sankt-Petersburg Economic-Mathematical Institute of the Russian Academy of Sciences, Russian Federation.*
13. Use of computer program «Uran» for assuring quality of laboratory research. S. Zyablitsev, *Donetsk National Medical University named after Maksym Gorkyj, Ukraine.*
14. Personal Electronic Health Records in Internet – for patients and physicians. B. Zingerman, *National Center for Hematology, Russian Federation.*
15. Health facility informatization in the world of today. O. Panchenko, *State Institution «Scientifically-practical medical rehabilitation-diagnostic center, Ministry of Health of Ukraine».*
16. To the question of authenticity and plenitude of statistical data in health care. S. Soshnikov, *Central research institute of organization and informatization of health care of Ministry of health and social development of Russian Federation.*
17. Questions of information protection in automated systems intended for medical use. I. Sinitsin, *SEI of automated computer systems «Ekotex», Ukraine.*
18. Use of information-analytical means in activities of sanitary-epidemiological service of Ukraine. O. Turos, *State Institution «Institute of hygiene and medical ecology named after O.M. Marzeev, NAMS of Ukraine».*
19. Informational security in medicine. O. Voloshchuk, *Author Ltd, Ukraine.*
20. Potential of solutions SAP AG Health Care and DFPS for automatization of activities of military health facilities. M. Zakalad, *Center of military-strategic research of the National University of Defense of Ukraine.*
21. Some problems of informatization and support of innovation processes in medical-biological science in Ukraine. I. Shepelenko, *Institute of experimental pathology, oncology and radio-biology named after R.E. Kavetskyj, NAS of Ukraine.*
22. Automation of distributed processing of medical information: example of nephrological in-patient unit. A. Skatkov, *Sevastopol National Technical University, Ukraine.*
23. Concept of using information and GIS-technology in system «environment-health of a human being». O. Prokopenko, *Ministry of regional development and construction of Ukraine.*

24. Licensing and accreditation as tools for Quality assurance in Health Care. Yu. Komarov, *Russian Federation*.
25. System supporting decision making in diagnosing and proscribing medication in dermatology. A. Povoroznyuk, *National Technical University 'Kharkiv Polytechnic Institute', Ukraine*.
26. Methodical approaches to creation of web portal on ecological state of environment and its influence on health of Ukraine's population, based on official medical statistics data. V. Bryazkalo, *State Institution «Institute of hygiene and medical ecology named after O.M. Marzeev, NAMS of Ukraine»*.
27. Qualitative evaluation of health: reality or fiction? G. Apanasenko, *National Medical Academy of Post-Graduate Education named after P.L. Shupyk, Ukraine*.
28. The first stage of construction of information system of rural health care in Dnipropetrovsk district. V. Kostra, *Institute of Technical Mechanics, NAS of Ukraine and National Space Agency of Ukraine*.
29. Role of medication market informatization in improvement of pharmaceutical enterprise management system. L. Babintseva, *National Medical Academy of Post-Graduate Education named after P.L. Shupyk*.
30. Medical and hospital informational systems. Architecture, scalability, universality and implementation problems. Application of modern technologies. A. Kazakov, *Viola - Medtechnique Ltd, Ukraine*.
31. Managing activities of managerial and administrative staff of military agencies, institutions, facilities - managing of administrative and maintenance processes. V. Filipishyn, *Ukrainian-military medical academy, Ukraine*.
32. Experience of health facilities of Ivano-Frankivsk city with electronic version of «ambulatory patient's medical card» and programs «policlinica», «statsionar» as information source for medical electronic passport. V. Vovchuk, *Ivano-Frankivsk central municipal clinical hospital, Ukraine*.
33. Automatization of information data stream with MIS «phsiotherapy». V. Antonov, *State Institution «Scientific-practical medical rehabilitation-diagnostic center, Ministry of Health of Ukraine»*.
34. Actual technologies of developing attachment on post-relational platform. R. Olijnyk, *Viola - Medtechnique Ltd, Ukraine*.
35. Clusterization and selection of diagnostically valuable attributes. N. Maksyuta, *National Technical University 'Kharkiv Polytechnic Institute', Ukraine*.

36. Use of web-integrated computer modeling examining epidemics of acute respiratory disease. N. Tsyapa, *Ternopil regional sanitary-epidemiology station, Ukraine*.
37. Expert assessment of individual pharmacotherapy of diabetes with support of computer databases. A. Bojko, *Lviv National Medical University named after Danylo Galytskyj, Ukraine*.
38. Intellectual computer system of differential diagnostics of allergodermatosis based on artificial immune systems. I. Sorokina, *Kharkiv National University of Radio Electronics, Ukraine*.
39. Use of information technologies in reforming primary and secondary health care. V. Gorachuk, *National Medical Academy of Post-Graduate Education named after P.L. Shupyk, Ukraine*.
40. Simple information technology use as a means of increasing frequency and efficacy of preventive health services in family practice. Yu. Smishchuk, *Kyiv Darnytsa region Family Practice Training Centre*.
41. Conceptual problem of structured biomedical data in developing ergonomic interface. I. Shakalo, *National Medical Academy of Post-Graduate Education named after P.L. Shupyk, Ukraine*.
42. Information technologies as a means of effective non-material motivation of health care system. M. Katashynska, *Odessa National Polytechnic University, Ukraine*.
43. Influence of uncertainty on demand in medical insurance. N. Klimuk, *Ternopil State Medical University named after I.Ya. Gorbachevskogo*.
44. System dynamics of treatment-prophylaxis provision of armed forces: new technologies of managing organizational-medical processes. F. Levchenko, *Ukrainian Military Medical Academy, Ukraine*.
45. Use of informative-wave therapy in thyrotoxicosis treatment. M. Bolgov, *State Institution «V.P. Komisarenko Institute of Endocrinology and Metabolism of the NAS of Ukraine»*.
46. Principles of MIS and MIT in Single Medical Space of Internet. A. Popov, *International Research and Training Centre of informational technologies and systems of the NAS of Ukraine / V. Zavgorodnij, Kyiv municipal state administration, Ukraine*.
47. Information accounting in activity of military health care facility. A. Otroshko, *Chernihiv military hospital, Ukraine*.

Discussion.

June 25<sup>th</sup>, 2010, National Medical Academy of Post-Graduate Education named after P.L. Shupyk, 10.00 – 18.00, Auditorium 3 (Session hall).

**Informatization of education process. Informational-pedagogical technologies. Engineering of medical knowledge.**

Moderators: O. Volosovets, V. Bondarenko, I. Bulakh, B. Mokin, V. Martsenyuk, P. Fedoruk, O. Ryzhov, V. Krasnov

1. Multimedia technologies in medical education. A. Putintsev, FSE «Moscow scientific research institute for pediatrics surgery», Russian Federation.
2. System analysis of results of implementation of innovation technologies in Ternopil State Medical University named after I.Ya. Gorbachevskyj. V. Martsenyuk, Ternopil State Medical University named after I.Ya. Gorbachevskyj, Ukraine.
3. Organization of individual learning on the basis of adaptive distance learning systems. P. Fedoruk, Prykarpattya National University named after Vasyl Stefanyk, Ukraine.
4. Provision of ophthalmologist activity in Ukraine with internet resources. S. Rykov, National Medical Academy of Post-Graduate Education named after P.L. Shupyk, Ukraine.
5. Ten contradictions of e-learning: illusion and reality. O. Ryzhov, Zaporizhzhia State Medical University, Ukraine.
6. Cognitive methods in education and medicine. A. Alpatov, Institute of Technical Mechanics, NAS of Ukraine and National Space Agency of Ukraine.
7. Forming and use of information technology of estimation students' functional state. L. Kozak, International Research and Training Centre of informational technologies and systems NAS of Ukraine and MES of Ukraine.
8. Technology of modeling processes of vital activity of human body organs and systems - «PureMedSim». I. Khaimzon, Vinnytsia National Medical University named after M.I. Pyrogov, Ukraine.
9. Principles of structuring knowledge base of information system of complex analysis of medication interaction. Yu. Penkin, National Pharmaceutical University, Ukraine.
10. Application of means of evolutionary modelling in task of organizing and planning educational process of higher educational institutions. V. Galchenko, Lugansk state medical university.

11. Prospects of controlled from distance studies of Family Physicians. G. Lysenko, National Medical Academy of Post-Graduate Education named after P.L. Shupyk, Ukraine.
12. Cybernetic acmeology medical-biology information system for distance learning. V. Antonov, National Technical University of Ukraine 'Kyiv Polytechnic Institute', Ukraine.
13. Developing system of interpreting medical standards with assistance of electronic technologies. V. Krasnov, National Medical Academy of Post-Graduate Education named after P.L. Shupyk, Ukraine.
14. Global direction of mutual education. B. Ledoschiuk, Association of specialists of social medicine, Ukraine.
15. Using method of limiting generalizations in system analysis of medical-biological data. Yu. Prokopchuk, Institute of Technical Mechanics, NAS of Ukraine and National Space Agency of Ukraine, Ukrainian State Chemical-Technological University.
16. Creating a portal of Integrated Medical Educational Space. A. Kolisnyk, National Medical Academy of Post-Graduate Education named after P.L. Shupyk, Ukraine.
17. Pedagogical technology of automatic training systems use in credit-module system of education of students of higher educational establishments. N. Ivankova, Zaporizhzhia State Medical University.
18. Use of ICT in rehabilitation work. A. Shevtsov / L. Ditkovska, Institute of correction pedagogics and psychologies of National Pedagogical University named after M.P. Dragomanov.
19. Controlled from distance cyber akmeology systems supporting decision-making. Yu. Antonova-Rafi, National Technical University of Ukraine 'Kyiv Polytechnic Institute', Ukraine.
20. Analysis of medical distance learning peculiarities: economic aspects. T. Stroganova, Zaporizhzhia State Medical University, Ukraine.
21. About experience of teaching information technology course. N. Kravets, Ternopil State Medical University named after I.Ya. Gorbachevskyj, Ukraine.
22. Use of quantum model of knowledge for creation of adaptive study trajectory in the system of distance learning. M. Pikulyak, Prykarpattya National University named after Vasyl Stefanyk, Ukraine.
23. Evolution of informatics training of medical doctors at undergraduate level. L. Vojtenko, National Medical University named after O.O. Bohomolets, Ukraine.

24. Algorithms of training elements formation on the bases of universal class of object in intellectual training systems. A. Popov, *Zaporizhzhia State Medical University, Ukraine.*
25. Program complex of evaluating audiometry for students of medical specialties. Yu. Sosnovskij, *Crimean State Medical University named after S.I. Georgievskij, Ukraine.*
26. Comparative description of hardware-software complexes for video conferencing in distance learning systems. O. Androsov, *Zaporizhzhia State Medical University, Ukraine.*
27. Controlled from distance testing of knowledge in medical education: experience of Ternopil State Medical University named after I.Ya. Gorbachevskij. N. Gandzyuk, *Ternopil State Medical University named after I.Ya. Gorbachevskij, Ukraine.*
28. Methods of forming learning material and its representation in adaptive systems of distance learning. S. Maslovskij, *Prykarpattya National University named after Vasyl Stefanyk, Ukraine.*
29. Use of software environment support of systemic medical research in teaching pharmacokinetic course. I. Andrushak, *Volyn National University named after Lesya Ukrainka.*
30. Methods of developing electronic systems for teaching and testing with use of Moodle and Claroline software. O. Dorosh, *National University of Kyiv-Mohyla Academy, Ukraine.*
31. Conceptual model of monitoring students' independent work in adaptive systems of education. V. Vasilakin, *Zaporozhye State Medical University.*
32. Structuring and adaptive representing of knowledge in distance learning. M. Dutchak, *Prykarpattya National University named after Vasyl Stefanyk, Ukraine.*
33. Standarts in distance learning. O. Udud, *Prykarpattya National University named after Vasyl Stefanyk, Ukraine.*
33. Analysis of database performance parameters of knowledge testing information system in medical education. A. Semenets, *Ternopil State Medical University named after I.Ya. Gorbachevskij, Ukraine.*
34. Technology of defining effectiveness of functioning of adaptive distance learning system and knowledge control. N. Pavlyuk, *Prykarpattya National University named after Vasyl Stefanyk, Ukraine.*

*Discussion.*

June 25<sup>th</sup>, 2010, National Medical Academy of Post-Graduate Education named after P.L. Shupyk, 10.00 – 14.00, Auditorium 407.

### **Telemedicine.**

*Moderators:* O. Kovalenko, M. Natenzon, Yu. Gladush, A. Selkov, L. Godlevskij, V. Vyshnevskij, S. Mokhnachov

1. Using standards of electronic medical records/documents. O. Kovalenko, *International Research and Training Centre of informational technologies and systems NAS of Ukraine and MES of Ukraine.*
2. Possibilities and experiences of applying telemedical technologies in modern cardiac surgery practice. G. Knyshov / V. Ostashko, *State establishment «National M.M. Amosov Institute of Cardiovascular Surgery the NAMS of Ukraine».*
3. Telemedicine as innovative technology of medical education. R. Khajrullin, *Ulyanovsk State University of the Federal agency of education, Russian Federation.*
4. Telemedicine technology in monitoring scientific experiment. V. Vishnevskij, *Institute of Mathematical Machines and Systems, NAS of Ukraine.*
5. Concept of developing telemedicine network in Odessa region. S. Kalinchuk, *Odessa State Medical University, CE Odessa regional clinical hospital, Ukraine.*
6. Network Neuro-Rehabilitation. M. Shtark / N. Grebneva, *Scientific Research Institute for Molecular Biology and Biophysics, Scientific Center for Neurology of the Russian Academy of Medical Science, Russian Federation.*
7. 3G teleambulance for the first responders M. Adeyinka, L. Godlevsky, N. Bayazitov, I. Smirnov *Laboratory for Biomedical Informatics, Amersfoort, The Netherlands.*
8. All-ukrainian telemedical transtelephonic ECG network «telecard» in 2005-2009. R. Pavlovich, *TREDEX Company Ltd., Ukraine.*
9. Instruments of providing distance services in the process of medical examinations of wide sections of population. O. Stryzhak, *Institute for Telecommunications and Global Information Space of the NAS of Ukraine.*
10. Automatic classification of spectrograms in a telemedicine system of screening oncology illnesses «ONKOTEST WM-01». T. Romanenko, *Institute of Mathematical Machines and Systems, NAS of Ukraine.*

11. Role of regional medical information systems in managing hospitals and public health care system of a region. *S. Dyachenko, CIET Ltd, Ukraine.*
12. Instrumental express biochemical diagnostics of autoimmunity for patients with diabetes with controlled from distance verification of results of primary analysis. *V. Romanov, Institute of Cybernetics named after V.M. Glushkov, NAS of Ukraine.*
13. Information-telecommunication system of FISH analysis of images, obtained via microscope. *V. Semko, Institute for Telecommunications and Global Information Space of the NAS of Ukraine.*
14. Structural model of gray-scale image in the task of image processing by Kyrlian V. *Kalmykov, Institute of Mathematical Machines and Systems, NAS of Ukraine.*
15. Theoretical and practical aspects of studying human being adaptation programs to space weather factors. *M. Ragulskaya, Institute of earthly magnetism and distribution of radio waves of the Russian Academy of Medical Science, Russian Federation.*
16. Optimizing organizational-functional structure of mobile military hospital by utilization of imitation modeling. *I. Sereda, Ukrainian military medical academy, Ukraine.*
17. Use of streamline video and conferencing possibilities for providing distance medical consulting. *Yu. Vojevoda, Ukrainian military medical academy, Ukraine.*

*Discussion.*

June 25<sup>th</sup>, 2010, National Medical Academy of Post-Graduate Education named after P.L. Shupyk, 14.00 – 17.00, Auditorium 407

**Implementation of GRID-technologies in medicine and biology.**

*Moderators: A. Zagorodniy, O. Kornelyuk, V. Avramenko*

1. Development of National GRID - infrastructures in Ukraine. *A. Zagorodniy, Bogolyubov Institute for Theoretical Physics, NAS of Ukraine.*
2. Some aspects of Grid-technology use in medicine. *V. Avramenko, International clinic of restoration treatment, Ukraine.*
3. Grid-technology and computer design of new medications. *O. Kornelyuk, Institute of Molecular Biology and Genetics of the NAS of Ukraine.*
4. Application of Grid-technologies in medicine and biology. *E. Martynov, Bogolyubov Institute for Theoretical Physics, NAS of Ukraine.*
5. Integration of virtual laboratory MOLDYNGRID to Ukrainian academic Grid-infrastructure. *A. Salnikov, Kyiv National University named after Taras Shevchenko, Ukraine.*
6. Prospects of application of GRID are for telemedicine. *O. Sudakov, Kyiv National University named after Taras Shevchenko, Ukraine.*
7. A subsystem of data storage in an open interresectable Grid-infrastructure for biomedical researches. *E. Slyusar, Kyiv National University named after Taras Shevchenko, Ukraine.*
8. A virtual laboratory of biological and medical informatics of BioMedInfo for medicine of translator. *A. Eschenko, Institute of Molecular Biology and Genetics of the NAS of Ukraine, National Technical University of Ukraine 'Kyiv Polytechnic Institute', Ukraine.*
9. Increasing effectiveness of protein molecular dynamics calculations in Grid-environment of virtual laboratory MOLDYNGRID. *O. Savitskij, Institute of Molecular Biology and Genetics of the NAS of Ukraine.*

*Discussion.*

June 25<sup>th</sup>, 2010, National Medical Academy of Post-Graduate Education named after P.L. Shupyk, 10.00 – 18.00, Auditorium 401

**Clinical informatics. Medical diagnostic technologies of information. Algorithms, methods and systems of analysis of biomedical signals. Technologies of information in medical radiology.**

Moderators: O. Mayorov, Yu. Chaykovskyj, V. Sokolov, Yu. Komarov, M. Antomonov, Yu. Lyakh, O. Gojko

1. Information technologies for neurodynamic systems of brain by methods of multidimensional spectral analysis and deterministic chaos on EEG-signals. *O. Mayorov, Kharkiv Medical Academy of Post-Graduate Education, Ukraine.*
2. Information technology of developing indexes of state of health. *M. Antonomov, State Institution «Institute of hygiene and medical ecology named after O.M. Marzeev, NAMS of Ukraine».*
3. Role of beam diagnostics in identification of tumors in pancreas. *V. Sokolov, Odessa State Medical University, Ukraine.*
4. Fractal analysis of variability indicators of heart beat rhythm. *Yu. Lyakh, Donetsk National Medical University named after Maksym Gorkyj, Ukraine.*
5. Computer systems of diabetes compensation. *Ye. Bondarchuk, Vinnytsia National Medical University named after M. I. Pyrogov.*
6. Technology for developing environmental-hygienic portraits of territories. *L. Rusakova, State Institution «Institute of hygiene and medical ecology named after O.M. Marzeev, NAMS of Ukraine».*
7. Modern information technologies in diagnosing glaucoma. *S. Rykov, National Medical Academy of Post-Graduate Education named after P.L. Shupyk, Ukraine.*
8. Possibilities of CT-mammography in diagnosing recurrent breast cancer. *A. Abduraimov, Moscow Medical Academy named after I.M. Sechenov, Russian Federation.*
9. Automatization of morphometry of vessels of bulbaris conjunctivae when evaluating functional state of brain blood circulation in normal condition and after craniocerebral injury. *S. Semisalov, Donetsk National Medical University named after Maksym Gorkyj, Ukraine.*
10. Experience of MVCT use in vascular pathology detection. *L. Anishchenko, Odessa State Medical University.*

11. Role of multiplanar reconstruction, 3D-reconstruction and virtual endoscopy in identifying pathologies of large intestine. *V. Sokolov, Odessa State Medical University, Ukraine.*
12. Processing of multispectral images in medical diagnostics. *M. Koltovoj, SRI. First-aid named after M.V. Sklifosovskij, Russian Federation.*
13. Spatial location of EP sources. *V. Sergeyev, National Aerospace University «KhAI», Ukraine.*
14. Diagnostics of sharp and chronic pancreatitis. *V. Sokolov, Odessa State Medical University, Ukraine.*
15. Analysis of influence of image chromaticity on its compression quality. *A. Gladysheva, International Research and Training Centre of informational technologies and systems, NAS of Ukraine and MES of Ukraine.*
16. Forecast, diagnosis and complex therapy of wide spread dermatosis using automated information systems. *Ye. Soloshenko, State Institution «Institute of dermatology and venereology of the NAMS of Ukraine».*
17. Beam diagnostics of tumors and pseudotumors of eye socket. *L. Terentjeva, Institute of eye illness and tissue therapy named after V.P. Filatov NAMS of Ukraine.*
18. Clinical experience of using EMG biofeedback-systems in rehabilitation of children with extrophy of urinary bladder. *Ye. Poddubnaya, Dnipropetrovsk National University named after O. Gonchar, Ukraine.*
19. Information value of characteristics of sounds of breathing of COPD patients during computer auscultation. *A. Makarenkova, Institute of hydromechanics NAS of Ukraine.*
20. Using multiagent method of cluster intellect in designing magnetic systems of orthopedic MRT. *V. Galchenko, Lugansk State Medical University.*
21. Use reoencephalography test with persons having various effectiveness of cerebral hemodynamic. *S. Radchenko, State Institution «Scientific-practical medical rehabilitation-diagnostic center».*
22. Possibilities for provision of pharmaceutical information on osteoporosis with use of Internet technologies. *A. Lendyak, Lviv National Medical University named after Danylo Galytskyj, Ukraine.*
23. Entropy as a method of informational provision in diagnostics. *S. Syutkina, Institute of Technical Mechanics, NAS of Ukraine and National Space Agency of Ukraine.*

24. New diagnostic criteria in systems of complex cardiognostics. A. Sverstyuk, *Ternopil State Medical University named after I.Ya. Gorbachevskyj*.
25. Analysis of indicators of sedimentation speed of erythrocytes of patients with brain gliomas. A. Tarasov, *Institute of Cybernetics named after V.M. Glushkov, NAS of Ukraine*.
26. Informational modeling of evaluation states of multi-parametrical systems. T. Fedyakina, *Institute of Technical Mechanics, NAS of Ukraine and National Space Agency of Ukraine*.
27. Methods of analyzing adaptive properties of organism. O. Kiselyova, *National Technical University of Ukraine 'Kyiv Polytechnic Institute'*.
28. Information technology of decision making in the conditions of uncertainty. O. Voloshchuk, *State Institution «Institute of hygiene and medical ecology named after O.M. Marzeev, NAMS of Ukraine»*.
29. Some problems of computer estimation of mean values of PH. Ya. Mykhalko, *Uzhhorod National University, Ukraine*.

#### Discussion.

June 25<sup>th</sup>, 2010, National Medical Academy of Post-Graduate Education named after P.L. Shupyk, 10.00 – 14.00, Auditorium 46

#### **Information technologies in normal and pathological physiology. Bioinformatics.**

Moderators: Ye. Lyabakh, V. Leschuk, I. Yermakova, V. Iljin, I. Mankovska, G. Korobejnikov

1. Thermal model for practical use. I. Yermakova, *International Research and Training Centre of informational technologies and systems, NAS of Ukraine and MES of Ukraine*.
2. Optimal procedures of recognition in bioinformatics tasks. A. Gupal, *Institute of Cybernetics named after V.M. Glushkov, NAS of Ukraine*.
3. Overcoming mitochondrial insufficiency as a major stimulus of cell adaptations to hypoxia. Mathematical analysis. Ye. Lyabakh, *International Research and Training Centre of informational technologies and systems, NAS of Ukraine and MES of Ukraine*.
4. Using theory of system ultra-stability in evaluating of sportsman's organism reaction to physical load. V. Iljin, *National University of Physical Education and Sport of Ukraine*.

5. Oxygen transport in skeletal muscle of those working with max oxygen consumption under arterial hypoxemia. I. Mankovska, *O.O. Bogomoletz Institute of Physiology NAS of Ukraine*.
6. Information technologies of diagnosing functional states of sportsmen - members of national teams of Ukraine. G. Korobejnikov, *National University of Physical Education and Sport of Ukraine*.
7. Modeling complex for theoretical research of human hemodynamics response to atmosphere pressure changes. P. Lissov, *Institute of Software Systems, NAS of Ukraine*.
8. Theory of predestined systems - alternatives approach to problems of organizing the symplest life form. V. Galko-Titarenko. *State Enterpriz Institute of Epidemiology and Infections diseases named after L.V. Gromashevskyj NAMS of Ukraine*.
9. Use of bioinformational resources in microRNA research. T. Barannik, *Kharkiv National University named after V.N. Karazin, Ukraine*.
10. Models and algorithms of evaluating security and effectiveness of using intermittent hypoxia in medical practice. T. Serebrovska, *O.O. Bogomoletz Institute of Physiology, NAS of Ukraine*.
11. Variability of cardiac rhythm as a means of estimation of oxidizing stress of organism and its correction: theoretical and practical aspects. O. Eliseeva, *Lviv National Medical University named after Danylo Galytskyj, Ukraine*.
12. Singling out human respiratory rhythm for noninvasive measurement of extent of venous blood oxygen saturation. S. Mamilov, *Institute of the applied problems of physics and biophysics, NAS of Ukraine*.
13. Technique of individual correction of breathing frequency and its realization in information technology «Anti-stress». L. Fainzilberg, *International Research and Training Centre of informational technologies and systems, NAS of Ukraine and MES of Ukraine*.
14. Formal model of DNA-calculations. D. Buj, *Kyiv National University name after B. Khmelnytskyi, Ukraine*.
15. Agro-ecological aspects of Agro Industrial Complex Development of Bioenergy basis. Yu. Tarariko, *Institute of hydrotechnics and melioration, NAS of Ukraine*.
16. Principles of selecting fractal plurals for differential analysis of systemic hemodynamic reaction to probe with compression-decompression of limbs of patients with ischemic heart disease. P. Shtompel, *Ukrainian Medical Stomatological Academy, Ukraine*.
17. Modeling complex for research of human electromagnetic hyperthermia. Yu. Tadeeva, *International Research and Training Centre of informational technologies and systems NAS of Ukraine and MES of Ukraine*.

18. Dynamics of psychophysiological informational indicators under influence of extreme cryotherapy. V. Antonova, *Donetsk National Medical University named after Maksym Gorkyj, Ukraine.*
19. Psycho-physiological peculiarities of visual information processing and emotional state of sportsmen with high qualification. L. Korobejnikova, *National University of Physical Education and Sport of Ukraine.*
20. Information technology for evaluation of person's temperature comfort. A. Bogatjonkova, *International Research and Training Centre of informational technologies and systems, NAS of Ukraine and MES of Ukraine.*
21. Modeling adaptation of human being to heat. A. Nikolayenko, *International Research and Training Centre of informational technologies and systems, NAS of Ukraine and MES of Ukraine.*

#### Discussion.

June 25<sup>th</sup>, 2010, National Medical Academy of Post-Graduate Education named after P.L. Shupyk, 14.00 – 18.00, Auditorium 46

#### **Information technologies in development of medical equipment. Nanotechnologies.**

Moderators: V. Tymofeev, Yu. Sinekop, A. Alpatov, A. Bykh

1. Diagnostic possibilities of modern rinomanometry. A. Bykh, *Kharkiv National University of Radioelectronics, Ukraine.*
2. Intellectual sensors for diagnostics in medicine and biology. I. Voitovych, V.M. Glushkov *Institute of cybernetics of NAS of Ukraine.*
3. Perspectives of using high frequency bipolar electric welding of biological tissues in pediatric otorhinolaryngology. Equipment and surgical intervention techniques. A. Kosakovskiy, *National Medical Academy of Post-Graduate Education named after P.L.Shupik, Ukraine.*
4. Methods of processing, imaging and analysing of magnetocardiogram, their theory and program realization. M. Primin, *Institute of Cybernetics named after V.M. Glushkov, NAS of Ukraine.*

5. Medical instrument engineering and innovational medical technologies. U. Lushchik, *Clinical hospital of «Feofaniya», Ukraine.*
6. Controlling state of polydispersed biological liquids by spectropolarimetric images of hung particles. V. Petruk, *Institute of ecology and ecological cybernetics, Vinnytsia National Technical University of Ukraine.*
7. dc-SQUID-based magnetometric systems for practical implementation in medicine, biology, technique. Yu. Maslennikov, *Institute of radioengineering and electronics named after V.O. Kotelnikov of the Russian Academy of Sciences, SPC KRIOTON Ltd, Russian Federation.*
8. Biomagnetic informatic-measurement systems for biomedical application M. Budnyk, *Glushkov Institute of Cybernetics, NAS of Ukraine.*
9. Tesla Bio Workbench – «computing» laboratory at the table of every scientist. A. Galych, *Private scientist-industrial enterprise «Yustar», Ukraine.*
10. Motor function restoration using electronic apparatus TRENAR-01. M. Vovk, *International Research and Training Centre of informational technologies and systems NAS of Ukraine and MES of Ukraine.*
11. Possibilities of using kirlianography evaluating environmental impact on functional state of population health. L. Pisotska, *National Mining University, Ukraine.*
12. Problems of informational provision for spirometry. V. Lopata, O.O. Bogomoletz *Institute of Physiology, NAS of Ukraine.*
13. Applying open hearing aid algorithms to patients with chronic sensorineural hearing loss. R. Abizov, *National Medical Academy of Post-Graduate Education named after P.L. Shupyk, CE Kyiv regional clinical hospital, Ukraine.*
14. Method of adaptive filtration of biomedical signals with locally concentrated signs in intellectual cardiological systems. A. Filatova, *National Technical University 'Kharkiv Polytechnic Institute', Ukraine.*
15. Heat transmission in nonlinear finite samples. O. Bagrij-Zajats, *Ternopil State Medical University named after I.Ya. Gorbachevskiy, Ukraine.*
16. Information transformer technologies in medical-rehabilitation process of patients with impellent infringements. O. Gorbunov, *International Research and Training Centre of informational technologies and systems NAS of Ukraine and MES of Ukraine.*

17. Analysis of 7-year use of PET/CT in clinical practice: are there changes in consensus regarding prescriptions? *K. Zaplatnikov, V. Sukhov, Clinic of nuclear medicine, Germany, Military medical academy, Russian Federation.*
18. Photomedical sources of light with managed dynamic of radiation. *O. Kozhukhar, Lviv National Medical University named after Danylo Galytskyj, Ukraine.*
19. Analysis of low-amplitude components of electro cardio signals. *V. Fesechko, National Technical University of Ukraine 'Kyiv Polytechnic Institute', Ukraine.*
20. Magnetic imaging of cardiac action – new information technology of noninvasive electrophysiology. *V. Sosnitskiy, Institute of Cybernetics named after V.M. Glushkov, NAS of Ukraine.*
21. Biological experiment in space. *A. Palij, Institute of Technical Mechanics, NAS of Ukraine and National Space Agency of Ukraine.*
22. Methods of research of non-linearness of cerebration. *E. Bigun, National Technical University of Ukraine 'Kyiv Polytechnic Institute', Ukraine.*
23. Biomedical systems on intelligent operating system screen. *V. Prosolovska, Vinnytsia National Technical University, Ukraine.*
24. Medical-technical requirements to applied spirometry software. *M.A.-A. El Shebakh, National Technical University of Ukraine 'Kyiv Polytechnic Institute', Ukraine.*

*Discussion.*

June 25<sup>th</sup>, 2010, National Medical Academy of Post-Graduate Education named after P.L. Shupyk, 10.00 – 14.00, Auditorium 408

**Information and optic-electronic technologies for evaluation of person's functional state, psychological testing and personnel selection.**

Moderators: S. Zlepko, V. Barko, V. Kalnysh, V. Kozhemjiako, S. Pavlov

1. Determining functional state of human-operator by means of optronic technologies. *A. Motornyj, Vinnytsia National Technical University, Ukraine.*

2. The bases of polychromic bioregulation. *S. Madyar / E. Moiseyenko, Public Academy MODUS COLORIS of Ukraine, Institute of Physiology named after O.O. Bogomoletz, NAS of Ukraine, Kyiv National Antarctic Scientific Center, Ukraine.*
3. Forming information stress of operators with use of a computer model. *V. Kalnysh, State Institution «Institute of medicine of labour of the Academy of Medical Sciences of Ukraine», Ukraine.*
4. Methodological and applied aspects of information technology use in prophylaxis. *V. Sergeta, Vinnytsia National Medical University named after M. I. Pyrogov, Ukraine.*
5. Estimation of efficiency of method of determining level of emotional stress. *V. Sergeeva, Vinnytsia National Technical University, Ukraine.*
6. The system of remote-control of human's functional state under the conditions of extreme operative contact. *R. Belzetskyj, Vinnytsia National Technical University, Ukraine.*
7. Medical Information System of managing treatment and diagnostic processes. *O. Azarkhov, Sanatorium «Metallurgist», Ukraine.*
8. The adapted mathematical model for the system of the psychological testing of personnel. *N. Surova, Lutsk biotechnical institute, Ukraine.*
9. Features of constructing a workstation of doctor-endocrinologist. *P. Prudius, Vinnytsia regional clinical endocrinology dispensary, Ukraine.*
10. Methodology of selecting candidates for position of operator of poligraf. *S. Kostishin, Vinnytsia National Technical University, Ukraine.*
11. Optical technologies of evaluating of peripheral circulation of blood. *S. Pavlov, Vinnytsia National Technical University, Ukraine.*
12. Fiber-optic sensor for spatial investigation of biotissue areas. *R. Prosolovskij, Vinnytsia National Technical University, Ukraine.*
13. Active optoelectronic control of photomedic technologies. *A. Zazulyak, Lviv Polytechnic National University, Ukraine.*
14. Determination of boundary levels of satisfactory human psychophysiologic state under the influence of computer load. *O. Strakhova, Zaporizhzhia State Medical University, Ukraine.*
15. Features of functional co-operation of human and handgun in the conditions of close combat. *D. Shtofel, Vinnytsia National Technical University, Ukraine.*

16. Remote monitoring of human state depending on heliogeophysical factors. *P. Grigorjev, Tavrijski humanitarian ecological institute, Ukraine.*
17. Representation of heart rhythmic variability in Hilbert spaces. *B. Yavorskij, Ternopil National Technical University named after Ivan Pul'uj, Ukraine.*
18. Division of mixture of electrokardiosignal of mother and fetus. *E. Yavorska, Ternopil National Technical University named after Ivan Pul'uj, Ukraine.*
19. Methods of digital filtration for evaluating spectral descriptions of non-stationary cardiac rhythm. *V. Falendysh, Ternopil National Technical University named after Ivan Pul'uj, Ukraine.*
20. A prototype of consulting model for researching human neurotoxicity. *R. Tkachuk, Ternopil National Technical University named after Ivan Pul'uj, Ukraine.*

*Discussion.*

June 25<sup>th</sup>, 2010, National Medical Academy of Post-Graduate Education named after P.L. Shupyk, 10.00 – 17.00, Auditorium 4

**Information technologies in rehabilitation  
of Apallic syndrome in children.**

*Moderators: V. Kozyavkin, V. Martynyuk, A. Kondratiev*

1. Features of anaesthetic aid to children in vegetative state. *A. Kondratiev, Russian Neurosurgical Institute named after A.L. Polenov, Russian Federation.*
2. Our experience with children in vegetative state (Case Study). *E. Kondratieva, Russian Neurosurgical Institute named after A.L. Polenov, Russian Federation.*
3. Non-traumatic brain edema in children. *I. Savvina, Russian Neurosurgical Institute named after A.L. Polenov, Russian Federation.*
4. Mechanisms of brain edema in newborn and possibility of its correction. *A. Palchik, Paediatric State Medical Academy, Russian Federation.*
5. Combined ischemic – hemorrhagic brain injuries in neonates. *Y. Orlov, Institute of Neurosurgery of NAMS of Ukraine, Ukraine.*

6. New methods of diagnosing and treating neonates mothers with TORCH infection. *T. Znamenska, Institute of Paediatrics, Obstetrics and Gynecology, Ukraine.*
7. Clinical and molecular genetics diagnostic and prognostic criteria of nervous system injuring in children and newborn as a sequence of asphyxia. *L. Panasyuk, National Medical Academy of Post-Graduate Education named after P.L. Shupyk, Ukraine.*
8. Epileptic and Non-epileptic paroxysms in neonates: post-hypoxic and metabolic encephalopathies. *V. Studenikin, Scientific Centre of Child Health of AMS of Russia, Russian Federation.*
9. Brain neurotrophic factor in early diagnosis of ischemic and hemorrhagic cerebral injuring in preterm infants. *T. Znamenska, L. Kyriylova, V. Shveykina, Institute of Paediatrics, Obstetrics and Gynecology, Ukraine.*
10. Non-traumatic Apallic syndrome in children: clinical features, diagnostic, rehabilitation. *V. Martynyuk, National Medical Academy of Post-Graduate Education named after P. L. Shupyk, Ukraine.*
11. Consequences of apallic syndrome in children and new technology in their rehabilitation. *S. Evtushenko, Donetsk National Medical University, Ukraine.*
12. Experience of treatment of post-traumatic chronic persistent vegetative states in children. *A. Gorb, Regional Child Hospital of the Department, Ukraine.*
13. The plasticity of child's brain. *G. Shanko, Belarus Medical Academy of Post-Graduate Education, Belarus.*
14. Non-pharmacological correction of the sequences of the organic CNS injuring in children in the early and late recovery period. SINPR - the System of Intensive Neurophysiologic Rehabilitation of V. Kozyavkyn. *V. Kozyavkyn, International Clinic of Rehabilitation, Ukraine.*
15. Movement disorders and rehabilitation potential of children of early age. *V. Zykov, Russian Medical Academy of Post-Graduate Education, Russian Federation.*
16. From the treatment of mental disorders to mental health and psychological well-being of a child. *I. Martzenkovsky, Ukrainian Institute of Social and Judicial Psychiatry and Public Narcology of the Ministry of Public Health of Ukraine, Ukraine.*

*Discussion.*

June 25<sup>th</sup>, 2010, National Medical Academy of Post-Graduate Education  
named after P.L. Shupyk, 10.00 – 17.00

**Information - social problems of the Chernobyl disaster.**

*Moderators:* A. Klaussen, S. Flyugbible, G. Keppler

*Discussion of the following reports:*

1. If we live tomorrow, depends on our position today.  
*N. Preobrazhenska, Benevolent Fund of rescue of children of Ukraine is from Chernobyl of accident, Ukraine.*
2. On state of the site "Ukrytiye" and technology of extracting fuel-carrying masses. *Yu. Lapshyn, State Ecological Academy of Post-Graduate Education and Management, Ukraine.*
3. System of thyroid screening, diagnostics and monitoring for large communities, affected by Chernobyl disaster. *A. Cheban, International Organization is «Doctors to Chornobyl», Ukraine.*

*List of presentations/speeches will be distributed separately.*

**CLOSING PLENARY SESSION.**

**June 26<sup>th</sup>, 2010, 10.00 - 13.00,  
National Medical Academy of Post-Graduate Education  
named after P.L. Shupyk, Assembly Hall**

*Moderators:* O.P. Mintser, O.Yu. Majorov

1. Speeches of Heads of Scientific Symposium.
2. Adoption of Congress Resolution.
3. Congress Closing Ceremony.