

HUMBOLDT KOLLEG

PROGRAM

August 05, 2010, Thursday

Embassy of Federal Republic of Germany in Ukraine,

Bogdana Khmel'nyts'kogo St., 25

15:00 – 16:00	<p>PRESS-CONFERENCE:</p> <p>«SUPPORT OF YOUNG SCIENTISTS IS THE SOLE FUTURE FOR UKRAINE»</p> <p>Participants:</p> <p>Dr. Hans-Jürgen Heimsoeth <i>Ambassador of Federal Republic of Germany in Ukraine</i></p> <p>Dr. Gisela Janetzke <i>Deputy Secretary General of the Alexander von Humboldt Foundation</i></p> <p>Dr. Alexandra Antoniouk <i>Representative of the Humboldt Club Ukraine and Organizing Committee of the Humboldt Kolleg</i></p> <p>Dr. Bogdan Kyyak <i>Director of the Fundamental Research State Fund</i></p> <p>Dr. Igor Semeniv <i>Chief Doctor of the Clinical Hospital “Feofanya” of State Affairs Department, Ukraine</i></p> <p>Prof. Dr. Valerii Grygoruk <i>Pro-Rector (Scientific work) of the Taras Shevchenko National University of Kyiv</i></p> <p>Prof. Dr. Timothy Clark <i>Computer-Chemie-Centrum, Friedrich-Alexander- Universität Erlangen-Nürnberg, Germany</i></p> <p>Anna Marchenko <i>GM of Materialise Ukraine Research and Development office</i></p> <p>Moderation: Dr. Kyril Savin <i>Heinrich Böll Foundation</i></p>
16:00 – 16:40	COFFEE, INFORMAL COMMUNICATIONS

17:00 – 17:30

**OPENING CEREMONY OF THE HUMBOLDT
KOLLEG**

**«MATHEMATICS AND LIFE SCIENCES:
POSSIBILITIES, INTERLACEMENTS AND LIMITS»**

WELCOMING ADDRESSES:

Dr. Hans-Jürgen Heimsoeth

Ambassador of Federal Republic of Germany in Ukraine

Dr. Alexandra Antoniouk

*Representative of the Humboldt Club Ukraine and
Organizing Committee of the Humboldt Kolleg*

Acad. NASU Prof. Dr. Anatoliy Samoilenko

Director of the Kyiv Institute of Mathematics

Dr. Igor Semeniv

*Chief Doctor of the Clinical Hospital “Feofanya” of State
Affairs Department, Ukraine*

Prof. Dr. Valerii Grygoruk

*Pro-Rector on Scientific work of the Taras Shevchenko
National University of Kyiv*

Dr. Bogdan Kyyak

Director of the Fundamental Research State Fund

Prof. Dr. Timothy Clark

*Computer-Chemie-Centrum, Friedrich-Alexander-
Universität Erlangen-Nürnberg, Germany*

Representative of the Ministry of Health of Ukraine

**Representative of the State Committee of Ukraine for
Science, Innovation and Informatization**

**Representatives of Scientific élite and special invited
guests**

Dr. Gisela Janetzke

*Deputy Secretary General of the Alexander von Humboldt
Foundation*

Moderation: Dr. Kyril Savin

Heinrich Böll Foundation

17:30 – 18:00	PLENARY LECTURE THE ALEXANDER VON HUMBOLDT FOUNDATION PROGRAMS Dr. Gisela Janetzke <i>Deputy Secretary General of the Alexander von Humboldt Foundation</i>
18:00 – 18:30	CHAMBER MUSIC CONCERT String quartet “Cordes”
18:30 – 21:00	OPENING RECEPTION

August 06, 2010, Friday
Clinical Hospital “Feofanya”
Acad. Zabolotny St., 21

08:30	ARRIVAL OF PARTICIPANTS TO CLINICAL HOSPITAL “FEOFANYA”
08:30 – 09:00	MORNING COFFEE , COLLECTING OF TALKS FILES, POSTERS HANGING
09:00 – 09:20 Hall A.	OPENING CEREMONY OF THE FIRST WORKING DAY OF THE HUMBOLDT KOLLEG WELCOMING ADDRESSES: Dr. Igor Semeniv <i>Chief Doctor of the Clinical Hospital “Feofanya” of State Affairs Department, Ukraine</i> Representative of the Embassy of the Federal Republic of Germany in Ukraine Representative of the Ministry of Health of Ukraine Representative of the State Committee of Ukraine for Science, Innovation and Informatization Acad. NASU Prof. Dr. Anatoliy Samoilenko <i>Director of the Kyiv Institute of Mathematics</i> Dr. Gisela Janetzke <i>Deputy Secretary General of the Alexander von Humboldt</i>

	<p><i>Foundation</i> Prof. Dr. Dmitro Bazyka <i>Deputy director of the Scientific Center of Radiation Medicine, AMS of Ukraine</i></p>
09:20 – 11:25 Hall A.	PLENARY LECTURES
09:20 – 09:50	<p>Bazyka, Dmitro <i>Scientific Center of Radiation Medicine, AMS of Ukraine, Ukraine</i> MATHEMATICAL APPROACH IN RADIATION MEDICINE – A STEP FOR RADIATION EFFECTS VALIDATION.</p>
09:50 – 10:20	<p>Clark, Timothy <i>Friedrich-Alexander-Universitat Erlangen-Nürnbergt, Germany</i> MOLECULAR-DYNAMICS SIMULATIONS ON SIGNAL TRANSDUCTION</p>
10:20 – 10:30	<p>Strokan, Andrii <i>Clinical hospital "Feofaniya" of State Affairs Department, Ukraine</i> MULTIPROFILE HIGHLY SPECIALIZED MEDICAL AID IN THE CLINICAL HOSPITAL “FEOFANIYA”</p>
10:35 – 10:55	<p>Lushchyk, Ulyana <i>Head of Scientific Department and International Cooperation of the Clinical Hospital “Feofaniya” of State Affairs Department, Ukraine</i> 1) R&D DEPARTMENT IN DEVELOPMENT OF UP-TO-DATE MEDICAL DEVICES AND TECHNOLOGIES IN MODERN CLINICAL HOSPITAL "FEOFANIYA" 2) MODERN MODELS OF THE LIVING ORGANISMS FUNCTIONING AT NORMAL AND PATHOLOGICAL CONDITIONS</p>
10:55 – 11:25	<p>Kukush, Alexander <i>Taras Shevchenko National University of Kyiv, Ukraine</i> ESTIMATION OF RADIATION RISK ACCOUNTING FOR CLASSICAL AND BERKSON ERRORS IN DOSES FROM THE CHORNOBYL ACCIDENT</p>

11:25 – 12:05	COFFEE, YOUNG SCIENTISTS POSTER SECTION “LIFE SCIENCE” (COMPETITION)
12:10 – 14:15 Hall A.	SECTION: “Brain and nerves problem” Moderation: Dmiro Bazyka
12:10 – 12:30	Gorlov, Dmitriy, Kvasnytsia, Marina <i>National Technical University of Ukraine 'Kyiv Polytechnic Institute', Ukraine</i> MEDICAL IMAGE PROCESSING AND 3D TECHNOLOGIES FOR BIOMEDICAL RESEARCH AND PATIENT-SPECIFIC HEALTHCARE
12:30 – 12:50	Popovych, Oleksandr <i>Institute of Neuroscience and Medicine - Neuromodulation (INM-7), Research Center Juelich, Germany</i> MACROSCOPIC ENTRAINMENT OF NEURONAL ENSEMBLES WITH APPLICATION TO DEEP BRAIN STIMULATION
12:50 – 13.20	Sudakov, Oleksandr <i>Radiophysics Faculty, National T.Shevchenko University of Kyiv and Centre for Medical and Biotechnical Research NAS of Ukraine, Ukraine</i> PARALLEL SOFTWARE FOR MODELLING COMPLEX NONLINEAR DYNAMICS IN LARGE NEURONAL NETWORKS OF THE BRAIN
13.25 – 13.45	Krishtal, Oleg <i>Bogomoletz Institute of Physiology, Kyiv, Ukraine</i> HOW THE PAIN STARTS
13.45 – 14.00	Romanenko, Nataliya <i>Clinical hospital “Feofania” of Ukrainian State Administration, Ukraine</i> ACTUAL ISSUES IN ORGANIZATION OF NEUROLOGICAL AID IN THE CLINICAL HOSPITAL "FEOFANIYA"
14.00 – 14.15	Voznyak, Oleksander <i>Clinical hospital “Feofania” of Ukrainian State Administration, Ukraine</i> COMBINED TREATMENT OF PROLACTIN- SECRETING PITUITARY ADENOMAS
12:10 – 14:15 Hall B.	YOUNG SCIENTISTS SECTION “Life Science – I” (COMPETITION)

	Moderation: Alexander Kukush
12:10 – 12:20	<p>Bogatyrova, Olga <i>Institute of Molecular Biology and Genetics, National Academy of Sciences of Ukraine, Ukraine</i> CREATION OF GENE EXPRESSION SIGNATURE FOR RENAL CLEAR-CELL CARCINOMAS</p>
12:20 – 12:30	<p>Kyselova, Olga <i>National Technical University of Ukraine 'Kyiv Polytechnic Institute', Ukraine</i> METHODS OF NONLINEAR DYNAMICS FOR THE ANALYSIS OF HEART RATE VARIABILITY</p>
12:30 – 12:40	<p>Riabets, Ludmyla <i>Center for Innovative Medical Technologies "Veritas IT Med", Ukraine</i> A NEW INNOVATIVE TECHNOLOGY "SMART OPTIC CAPILLAROSCOPY" AS A MUTUAL INTELLECTUAL PRODUCT</p>
12:40 – 12:50	<p>Gavrilyuk, Oleg <i>Center for Innovative Medical Technologies "Veritas IT Med", Ukraine</i> DETECTION OF DYSFUNCTIONING IN THE CARDIOVASCULAR SYSTEM WITH HEMODYNAMIC LAB</p>
12:50 – 13:00	<p>Stukalin, Vladislav <i>Clinical hospital "Feofania" of Ukrainian State Administration, Ukraine</i> IMPLEMENTATION OF LOGICAL SCHEMES IN PHYSIOTHERAPEUTIC DEPARTMENT OF THE CLINICAL HOSPITAL "FEOFANIYA"</p>
13:00 – 13:10	<p>Legka, Ivanna <i>Clinic of innovative medical technologies "Victoria Veritas", Ukraine</i> METHOD OF USAGE OF COMBINATION OF MEDICINES FOR CORRECTION OF THE ARTERIAL-VENOUS-LIQUOR DISBALANCE</p>
13:15 – 13:25	<p>Bubnov, Rostyslav <i>Clinical Hospital "Feofaniya" of Ukrainian State Administration, Ukraine</i> MATHEMATICAL MODELING IN MODERN ULTRASONOGRAPHY</p>
13:25 – 13:35	<p>Udod, Maxim <i>Clinic of innovative medical technologies "Victoria</i></p>

	<p><i>Veritas", Ukraine</i></p> <p>MATHEMATICAL MODELING IN THE NEUROREHABILITATION OF ACUTE PATIENTS BY WAY OF AN EXAMPLE OF EFFICIENT TREATMENT OF PATIENTS WITH APALLIC SYNDROME</p>
13:35 – 13:45	<p>Turianska, Nataliya</p> <p><i>Clinic of innovative medical technologies "Victoria Veritas", Ukraine</i></p> <p>A MODEL OF CONVULSIVE REACTIONS OF THE BRAIN ACCORDING TO NEURODYNAMICS</p>
12:10 – 14:15 Hall C.	<p>YOUNG SCIENTISTS SECTION "Life Science – II" (COMPETITION)</p> <p>Moderation: Tatiana Shubina</p>
12:10 – 12:20	<p>Glushchenko, Mykola</p> <p><i>T. Shevchenko National University of Kyiv, Ukraine</i></p> <p>EXPLORING CHEMICAL SPACE FOR THE NEED OF MEDICINAL CHEMISTRY - THEORY AND PRACTICE</p>
12:20 – 12:30	<p>Dudchenko, Nataliia</p> <p><i>Semenenko Institute of Geochemistry, Mineralogy and Ore Formation, National Academy of Sciences of Ukraine, Ukraine</i></p> <p>NANOCRYSTALS IN HUMAN BODY</p>
12:30 – 12:40	<p>Gaiday, Alexander</p> <p><i>National Technical University of Ukraine 'Kyiv Polytechnic Institute', Ukraine</i></p> <p>COMPUTATIONAL AND EXPERIMENTAL STUDIES OF NEW CAGE COMPOUNDS - POTENTIAL ANTIVIRAL DRUGS</p>

12:40 – 12:50	<p>Grechanovsky, Alexey <i>Semenenko Institute of Geochemistry, Mineralogy and Ore Formation, National Academy of Sciences of Ukraine, Ukraine</i></p> <p>INFLUENCE OF ELASTIC CONSTANTS AND CHEMICAL BONDING ON RADIATION STABILITY OF SILICATES AND METAL OXIDES BY COMPUTER SIMULATIONS</p>
12:50 – 13:00	<p>Masiuk, Sergii <i>Scientific Research Center for Radiation Medicine, Ukraine</i></p> <p>CALCULATION OF THE STOCHASTIC MODE OF INDIVIDUAL THYROID DOSE FOR THE COHORT'S MEMBER</p>
13:00 – 13:10	<p>Korotich, Igor <i>Clinical Hospital "Feofaniya" of Ukrainian State Administration, Ukraine</i></p> <p>MULTIPROFILE HIGHLY SPECIALIZED MEDICAL AID IN THE CLINICAL HOSPITAL "FEOFANIYA"</p>
13:15 – 13:25	<p>Mekler, Alexey <i>The Bonch-Bruевич Saint-Petersburg State University of Telecommunications, Russia</i></p> <p>THE TUMOUR HISTOLOGIC SECTIONS PROCESSING WITH DIAGNOSTIC PURPOSES</p>
13:25 – 13:35	<p>Schwartz, Dmitri <i>Saint Petersburg State Polytechnic University, Russia</i></p> <p>THE CLASSIFICATION OF THE GENE EXPRESSION PROFILES IN BRAIN TUMOUR</p>
13:35 – 13:45	<p>Kolomiychuk, Oleg <i>Institute of Mathematics, National Academy of Sciences of Ukraine, Ukraine</i></p> <p>TASKS OF OBSERVATIONS IN ALMOST CONSERVATIVE DYNAMIC SYSTEMS</p>
14:10 – 15:00	<p>DINNER AND POSTER SECTION: "MEDICINE AND MATHEMATICAL MODELS IN MEDICINE"</p>
15:00 – 17:00	<p>SECTION: "Mathematical Modeling for Medicine"</p>

Hall A.	Moderation: Valentin Yatsenko
15.00 – 15.20	Novytskyy, Viktor <i>Institute of Mathematics, National Academy of Sciences of Ukraine, Ukraine</i> MATHEMATICAL MODELING PROCESS IN APPLIED HYDRO- AND HEMODYNAMICS
15.20 – 15.40	Rybalko, Svetlana, Palchykovska, Larisa <i>Institute of Epidemiology and Infection Diseases, Ukraine</i> USE OF THE MODEL DNA-CONTAINING ENZYME SYSTEMS TO SEARCH FOR INHIBITORS OF NUCLEIC ACID SYNTHESIS IN VIRUSES AND BACTERIA
15.40 – 16.00	Melnik, Roderick <i>Wilfrid Laurier University, Canada</i> RNA NANOSTRUCTURES AND THEIR PROPERTIES: A MODELLING PERSPECTIVE
16.00 – 16.20	Prysyazhnyuk, Anatoly <i>SI “Research Center for Radiation Medicine of Academy of Medical Sciences of Ukraine”, Ukraine</i> CANCER RISK IN AFFECTED BY CHORNOBYL ACCIDENT GROUPS OF UKRAINIAN POPULATION
16.20 – 16.40	Salminen, Lotta <i>University of Tampere, Finland</i> DIABETIC RETINOPATHY - A CHALLENGE TO PRIMARY HEALTH CARE
15:00 – 17:00 Hall B.	SECTION: “Mathematical Modeling for biological and environmental problems” Moderation: Oleksandr Popovych
15.00 – 15.20	Maiboroda, Rostyslav <i>T. Shevchenko National University of Kyiv, Ukraine</i> STATISTICAL ANALYSIS OF MIXTURES WITH APPLICATIONS TO DNA MICROARRAY DATA
15.20 – 15.40	Nastenko, Ievgen <i>National M. Amosov Institute of Cardio-Vascular Surgery, National Technical University of Ukraine 'Kyiv Polytechnic Institute'(Intercollegiate College of Medical Engineering), Ukraine</i> MATHEMATICAL STATISTIC IN LIFE SCIENCES. WHAT IS DESIRABLE?
15.40 – 16.00	Olkhovsky, Vladislav <i>Institute for Nuclear Research, National Academy of</i>

	<p><i>Sciences of Ukraine, Ukraine</i></p> <p>THE PROBLEMS OF THE ORIGIN OF BIOLOGIC LIFE AND OF THE REDUCTIONISM OF BIOLOGY TO PHYSICS (QUANTUM MECHANICS)</p>
16.00 – 16.20	<p>Koshmanenko, Volodymyr <i>Institute of Mathematics, National Academy of Sciences of Ukraine, Ukraine</i></p> <p>THE CONFLICT TRIAD MODEL WITH APPLICATIONS TO INFECTION DISTRIBUTION</p>
16.20 – 16.40	<p>Quak, Ewald <i>TUT Institute of Cybernetics, Estonia</i></p> <p>BALTIC WAY: THE POTENTIAL OF CURRENTS FOR ENVIRONMENTAL MANAGEMENT OF THE BALTIC SEA</p>
16.40 – 17.00	<p>Hryniv, Rostyslav <i>Pidstryhach Institute for Applied Problems of Mechanics and Mathematics, National Academy of Sciences of Ukraine, Ukraine</i></p> <p>INVERSE SCATTERING FOR SCHRÖDINGER OPERATORS WITH SINGULAR MIURA POTENTIALS</p>
15:00 – 17:00 Hall C.	<p>SECTION: “Biology and Chemistry for Life Sciences” Moderation: Timothy Clark</p>
15.00 – 15.20	<p>Komarov, Igor <i>T. Shevchenko National University of Kyiv, Ukraine</i></p> <p>EXPLORING CHEMICAL SPACE FOR THE NEED OF MEDICINAL CHEMISTRY -- THEORY AND PRACTICE</p>
15.20 – 15.40	<p>Rozhenko, Alexander <i>Institute of Organic Chemistry, National Academy of Sciences of Ukraine, Ukraine</i></p> <p>CALIXARENES AS PROTOTYPES OF BIOCHEMICAL RECEPTORS: A QUANTUM CHEMICAL INVESTIGATION</p>
15.40 – 16.00	<p>Kryachko, Eugene <i>Bogolyubov Institute for Theoretical Physics, National Academy of Sciences of Ukraine, Ukraine</i></p> <p>GOLD CLUSTERS AND NON-CLASSICAL X-</p>

	H...AU HYDROGEN BONDS: COMPUTATIONAL AND NANO-BIOPHYSICS APPLICATIONS
16.00 – 16.20	Skok, Maryna <i>Palladin Institute of Biochemistry, National Academy of Sciences of Ukraine, Ukraine</i> NICOTINIC ACETYLCHOLINE RECEPTORS: UNIVERSAL ROLE AND MEDICAL SIGNIFICANCE
16.20 – 16.40	Borisjuk, Nikolai <i>Biotechnology Foundation Laboratories, Thomas Jefferson University, USA</i> METHABOLIC ENGINEERING OF PLANT BIOMASS FOR BIOFUEL PRODUCTION
16.40 – 17.00	Volkov, Roman <i>Yu. Fedkovich National University of Chernivtsi</i> BIOTECHNOLOGICAL IMPROVEMENT OF CULTIVATED PLANTS RESISTANCE TO ENVIRONMENTAL STRESS
17:00 – 19:00 Hall A.	ROUND TABLE DISCUSSION «YOUNG TALENTS MANAGEMENT» Lushchyk, Ulyana <i>Clinical hospital "Feofaniya", Ukraine</i> AN ALGORITHM OF TALENT MANAGEMENT IN SCIENTIFIC MANAGEMENT Abashnik, Volodymyr <i>Kharkiv University of Economy and Law (HEPU) Ukraine</i> THE YOUNG TALENT IN THE HUMANITIES
19:00 – 19:30	COLLECTING OF THE PARTICIPANTS IN BUSES
20:00 – 22:00	BANQUET IN RESTAURANT «MYSLYVSKIY KHUTIR»

August 07, 2010, Saturday
Taras Shevchenko National University of Kyiv
Volodymyrska St., 60

09:00 – 09:15 Assembly Hall	WELCOMING ADDRESSES OF PRO-RECTOR IN SCIENTIFIC WORK OF THE TARAS SHEVCHENKO NATIONAL UNIVERSITY OF KYIV Prof. Dr. Valerii Grygoruk
09:15 – 11:50 Assembly Hall	PLENARY LECTURES
09:15 – 09:45	Kolokoltsov, Vassili <i>University of Warwick, UK</i> CONSTRUCTION OF LINEAR AND NONLINEAR MARKOV PROCESSES VIA SDES DRIVEN BY NONLINEAR LÉVY NOISE
09:45 – 10:15	Xue-Mei Li <i>University of Warwick, UK</i> STOCHASTIC ANALYSIS OF PATH SPACES
10:15 – 10:45	Imkeller, Peter <i>Humboldt-Universitaet zu Berlin, Germany</i> STOCHASTIC DYNAMICS OF PALEO-CLIMATIC TIME SERIES
10:50 – 11:20	Tarkhanov, Nikolai <i>Institute of Mathematics, University of Potsdam, Germany</i> NUMERICAL EXPERIMENTS FOR THE RIEMANN HYPOTHESIS
11:20 – 11:50	Kochubei, Anatoly <i>Institute of Mathematics, National Academy of Sciences of Ukraine, Ukraine</i> DISTRIBUTED ORDER CALCULUS AND ULTRASLOW PHYSICAL PROCESSES
11:50 – 12:20	COFFEE, POSTER SECTION „Mathematics“
12:20 – 13:40 Assembly Hall	SECTION “Mathematics – I” Moderation: Nikolai Tarkhanov
12.20 – 12.40	Fursikov, Andrei <i>M. V. Lomonosov Moscow State University, Russia</i> OPTIMAL NEUMANN CONTROL FOR THE STEADY-STATE 2D NAVIER-STOKES EQUATIONS

12.40 – 13.00	Goritsky, Andrey <i>M. V. Lomonosov Moscow State University, Russia</i> INERTIAL MANIFOLDS AND GAP PROPERTY FOR DISSIPATIVE HYPERBOLIC EQUATIONS
13.00 – 13.20	Kmit, Irina <i>Institute for Applied Problems of Mechanics and Mathematics, National Academy of Sciences of Ukraine</i> FREDHOLM ALTERNATIVE FOR HYPERBOLIC MODELS IN LASER DYNAMICS
12:20 – 13:40 Aud. 266	SECTION “Mathematics – II” Moderation: Anatoly Kochubei
12.20 – 12.40	Mikhailets, Vladimir <i>Institute of Mathematics, National Academy of Sciences of Ukraine</i> ABOUT THE HILL-SCHRÖDINGER OPERATORS.
12.40 – 13.00	Murach, Aleksandr <i>Institute of Mathematics, National Academy of Sciences of Ukraine</i> HÖRMANDER SPACES ON MANIFOLDS AND THEIR APPLICATIONS
13.00 – 13.20	Pankrashkin, Konstantin <i>University Paris Sud</i> ON THE AHARONOV-BOHM OPERATORS
12:20 – 13:40 Aud. 204	SECTION “Mathematics – III” Moderation: Vassili Kolokoltsov
12.20 – 12.40	Urusov, Mikhail <i>University of Ulm, Institute of Mathematical Finance, Germany</i> ON THE MARTINGALE PROPERTY OF CERTAIN LOCAL MARTINGALES
12.40 – 13.00	Samoilenko, Igor <i>Institute of Mathematics, National Academy of Sciences of Ukraine</i> LONG-TIME BEHAVIOR OF RANDOM PROCESSES WITH RARE BIG JUMPS
13.00 – 13.20	Omelchenko, Oleh <i>Weierstrass Institute for Applied Analysis and Stochastics, Berlin, Germany and Institute of Mathematics, Kyiv, Ukraine</i> COUPLING AND MOTION OF CHIMERA STATES
13:20 – 15:00	LUNCH IN “Domashnja Kuchnja”, Bogdana Khmel'nyts'kogo St., 16-22

	(by badge)
15:00 – 17:00 Assembly Hall	YOUNG SCIENTISTS SECTION “Mathematics – I” (COMPETITION) Moderation: Xue-Mei Li
15:00 – 15:10	Dilna, Nataliya <i>Institute of Mathematics, National Academy of Sciences of Ukraine</i> UNIQUE SOLVABILITY OF THE INITIAL VALUE PROBLEM FOR NONLINEAR FUNCTIONAL DIFFERENTIAL EQUATIONS
15:10 – 15:20	Drozd-Korolova, Olena, Korolyov, Alexey <i>T. Shevchenko National University of Kyiv</i> RADIONUCLEID DYNAMICS STUDY
15.25 – 15.35	Grushka, Yaroslav <i>Institute of Mathematics, National Academy of Sciences of Ukraine</i> THE CONSTANCY PROBLEM OF PROJECTION TRACE
15.35 – 15.45	Protsakh, Nataliya <i>Pidstryhach Institute for Applied Problems of Mechanics and Mathematics of NAS of Ukraine, Lviv, Ukraine</i> ON BEHAVIOUR OF SOLUTIONS OF MIXED PROBLEM FOR ULTRAPARABOLIC EQUATION
15.50 – 16.00	Ryabukha, Tatiana <i>Institute of Mathematics, National Academy of Sciences of Ukraine</i> THERMODYNAMIC LIMIT OF OBSERVABLE EVOLUTION
16.00 – 16.10	Zhariy, Mariya <i>Johannes Kepler University, Austria</i> SPARSE AND ADAPTIVE METHODS FOR SOLVING LINEAR ILL-POSED INVERSE PROBLEMS
15:00 – 17:00 Aud. 266	YOUNG SCIENTISTS SECTION “Mathematics – II” (COMPETITION) Moderation: Vladimir Mikhailets
15:00 – 15:10	Chabanenko, Dmitry <i>Bogdan Khmelnytsky Cherkassy National University</i> NONLINEAR MULTIAGENT SYSTEMS WITH RELATIONS OF CONCURRENCY, COOPERATION AND DOMINANCE

15:10 – 15:20	<p>Goriunov, Andrii <i>Institute of Mathematics, National Academy of Sciences of Ukraine</i> ON ONE-DIMENSIONAL DIFFERENTIAL OPERATORS WITH DISTRIBUTION COEFFICIENTS</p>
15.25 – 15.35	<p>Goloshchapova, Nataly <i>Donetsk Institute of Applied Mathematics and Mechanics</i> ON THE SPECTRAL PROPERTIES OF MULTI-DIMENSIONAL SCHRÖDINGER OPERATOR WITH POINT INTERACTIONS</p>
15.35 – 15.45	<p>Popov, Andrey <i>T. Shevchenko National University of Kyiv</i> ASYMPTOTIC EXPANSIONS OF THE EIGENELEMENTS OF SPECTRAL PROBLEMS WITH QUICKLY OSCILLATING COEFFICIENTS IN THIN PERFORATED DOMAINS</p>
15.50 – 16.00	<p>Sivak, Olena <i>T. Shevchenko National University of Kyiv</i> ASYMPTOTIC ANALYSIS OF A QUASILINEAR ELLIPTIC PROBLEM WITH DIFFERENT BOUNDARY MULTI-PHASE INTERACTIONS IN A PERFORATED DOMAIN</p>
16.00 – 16.10	<p>Zrazhevsky, Aleksey <i>National Technical University of Ukraine 'Kyiv Polytechnic Institute'</i> THE UNIFORM CONVERGENCE IN THE CASE OF THE WRAPPING OF REGRESSION CLASS BY THE POLYNOMIAL TYPE FUNCTIONS</p>
16.15 – 16.25	<p>Davydok, Anastasia <i>Vasyl Stefanyk Precarpathian National University</i> COMPRESSION AND TORSION OF SHAFT WITH VARIABLE FLEXURAL STIFFNESS</p>
16.25 – 16.35	<p>Zubchenko, Volodymyr <i>T. Shevchenko National University of Kyiv</i> THE RATE OF CONVERGENCE OF EULER SCHEME FOR STOCHASTIC DIFFERENTIAL EQUATIONS WITH NON-LIPSCHITZ DIFFUSION AND POISSON MEASURE</p>
15:00 – 17:00 Aud. 204	<p>YOUNG SCIENTISTS SECTION “Mathematics – III” (COMPETITION) Moderation: Andrei Fursikov</p>

15:00 – 15:10	Khripchenko, Nikolay <i>Kharkiv V. N. Karazin National University</i> AUTOMORPHISMS OF FINITARY INCIDENCE RINGS
15:10 – 15:20	Kriukova, Galyna <i>T. Shevchenko National University of Kyiv</i> ON NETWORK SYNCHRONIZATION
15.25 – 15.35	Moklyachuk, Oleksandr <i>T. Shevchenko National University of Kyiv</i> MODELS OF STOCHASTIC PROCESSES IN $D(V,W)$ SPACES
15.35 – 15.45	Shvai, Nadya <i>T. Shevchenko National University of Kyiv</i> ESTIMATION OF A TWO COMPONENT SYMMETRIC MIXTURE MODEL
15.50 – 16.00	Shvai, Olexander <i>T. Shevchenko National University of Kyiv</i> ESTIMATION OF THE RATE OF CONVERGENCE FOR THE EULER APPROXIMATION OF STOCHASTIC DIFFERENTIAL EQUATION WITH ADDITIONAL PROCESS-PARAMETER
16.00 – 16.10	Tsvir, Zhanna <i>T. Shevchenko National University of Kyiv</i> GENERALIZED QUANTUM KINETIC EQUATION
16.15 – 16.25	Usoltseva, Elena <i>T. Shevchenko National University of Kyiv</i> PARAMETRIC AND NONPARAMETRIC ESTIMATORS IN AFTM UNDER MEASUREMENT ERROR
16:40 – 17:50	COFFEE, YOUNG SCIENTISTS POSTER SECTION “MATHEMATICS” (COMPETITION)
18:00 – 18:30	PLENARY LECTURE Antoniouk, Alexandra <i>Kyiv Institute of Mathematics NAS Ukraine, Ukraine</i> MATHEMATICS IS THE SCIENCE OF LIFE (IN MEMORY OF ALEXANDER ANTONIOUK) Reminiscences.
18:30 – 19:00	Collecting of the participants to the buses. Transport to the Riverside Station.
19:00 – 22:00	DINNER ON BOARD.

August 08, 2010, Sunday
**National Technical University of Ukraine “Kyiv Polytechnic
Institute”**
Prospect Peremogy 37

09:00 – 09:20 Academic Council Hall	WELCOMING ADDRESSES TO THE PARTICIPANTS OF THE CONFERENCE Novogradskaya, Rina KYIV POLYTECHNIC INSTITUTE IS THE ALMA MATER OF TECHNICAL SCIENCE IN UKRAINE
09:00 – 11:35 Academic Council Hall	PLENARY LECTURES Moderation: Peter Imkeller
09:00 – 09:30	Kurzynski, Michal <i>Adam Mickiewicz University, Poland</i> FRACTAL NETWORKS MODEL THE CONFORMATIONAL TRANSITION DYNAMICS IN NATIVE PROTEINS
09:30 – 10:00	László, János F. <i>Institute for Research Organisation, Hungarian Academy of Sciences</i> PHYSIOLOGICAL EFFECTS OF STATIC MAGNETIC FIELD EXPOSURE
10:00 – 10:30	Nesenenko, Sergiy <i>Technische Universitaet Darmstadt</i> HOMOGENIZATION OF VISCOPLASTIC MODELS OF MONOTONE TYPE
10:35 – 11:05	Boi, Luciano <i>Ecole des Hautes Etudes en Sciences Sociales, France</i> WHEN TOPOLOGY AND BIOLOGY "MEETS" FOR LIFE
11:05 – 11:35	Makarenko, Oleksandr <i>Institute for Applied System Analysis at National Technical University of Ukraine 'Kyiv Polytechnic Institute', Ukraine</i> BIOLOGICALLY INSPIRED MODELS AND NEW PROBLEMS FOR LIFE SCIENCE

11:35 – 12:00	COFFEE
12:00 – 13:00 Academic Council Hall	SECTION “Mathematics – I” Moderation: Michal Kurzynski
12:00 – 12:20	Gerasimenko, Viktor <i>Institute of Mathematics, National Academy of Sciences of Ukraine</i> THE VON NEUMANN HIERARCHY FOR BOSE AND FERMI PARTICLES
12.20 – 12.40	Blavatska, Viktoria <i>Institute for Condensed Matter Physics, National Academy of Sciences of Ukraine</i> POLYMERS IN CROWDED ENVIRONMENT: GLOBULE-COIL TRANSITIONS AND SHAPE ANISOTROPY
12.40 – 13.00	Shchepanyuk, Gennadiy <i>Institute of Mathematics, National Academy of Sciences of Ukraine</i> ON EXPONENTIAL DECAY OF CORRELATIONS IN QUANTUM LATTICE SYSTEMS OF COMPACT SPINS WITH FINITE-RANGE CONTINUOUS INTERACTION AT THE SUFFICIENTLY SMALL MASS OF THE CONSTITUENT PARTICLES

12:00 – 13:00 Administrative Council Hall	SECTION “Mathematics – II” Moderation: János F. László
12:00 – 12:20	Zelinskyi, Iurii <i>Institute of Mathematics, National Academy of Sciences of Ukraine</i> CONTINUOUS MAPPINGS OF DOMAINS IN SPHERE
12.20 – 12.40	Sakhno, Lyudmyla <i>T. Shevchenko National University of Kyiv</i> STATISTICAL INFERENCE FOR STATIONARY PROCESSES AND FIELDS USING HIGHER ORDER INFORMATION
12.40 – 13.00	Shevchuk, Igor <i>MBtech Powertrain GmbH</i> SELF-SIMILAR SOLUTION OF TRANSPORT EQUATIONS IN ROTATING CONE-AND-PLATE DEVICES
12:00 – 13:00 The Big Physical Lecture Hall	SECTION “Mathematics – III” Moderation: Sergiy Nesenenko
12:00 – 12:20	Kolganova, Elena <i>Joint Institute for Nuclear Research, Dubna, Russia</i> EFIMOV PROPERTIES OF THREE-ATOMIC SYSTEMS
12.20 – 12.40	Korol, Ihor <i>Uzhhorod National University, Ukraine</i> PERIODICAL SOLUTIONS OF THE SINGULAR IMPULSIVE DIFFERENTIAL SYSTEMS
12.40 – 13.00	Sapaty, Peter <i>Institute of Mathematical Machines and Systems Problems, National Academy of Sciences</i> HIGH-LEVEL TECHNOLOGY TO MANAGE DISTRIBUTED DYNAMIC SYSTEMS

13:00- 14:00 Academic Council Hall	Shramko, Yaroslav <i>Kyryvi Rih State Pedagogical University, Ukraine</i> TRUTH AS A MATHEMATICAL OBJECT AWARDING OF THE WINNERS OF YOUNG SCIENTISTS SECTIONS CLOSING CEREMONY CLOSING DINNER
14:00 – 16:00	BUS CITY TOUR