

Ural Federal University named after first President of Russia B. N. Yeltsin
The Ural State Medical University
The Branch Union «Neuronet»

with the participation of
The Russian Psychological Society (Sverdlovsk region branch)
The Russian Academy of Education
The Russian Academy of Sciences
The medical centre «UMMC-Health»

supported by
Representative offices of the President of Russia in the Ural Federal district

PROGRAMME

International Forum
COGNITIVE NEUROSCIENCE – 2018.

November 6 – 8, 2018

Ekaterinburg

ORGANIZING COMMITTEE:

Chairman: Viktor Koksharov, PhD in Historical sciences, Head of Ural Federal University named after the first President of Russia B. Yeltsin (hereinafter – UrFU) (Ekaterinburg, Russia).

Vice-chairman: Sergey Kortov, Dr. habil. of Economics, PhD in Physics and Mathematics, First Vice-principal of UrFU (**Ekaterinburg, Russia**).

Vice-chairman: Alexandr Semenov, Executive Director of The Branch Union «Neuronet» (Moscow, Russia).

Members of the Organizing Committee:

Georgy Borisov, Alexey Kislov, Nadezhda Korepina, Olga Kuntareva, Kseniya Kunnikova, Alexander Kotyusov, Maria Lavrova, Alexey Maltsev, Svetlana Pavlova, Elvira Symanyuk, Nadezhda Terlyga, Irina Polyakova, Julia Pyankova,

PROGRAMME COMMITTEE:

Chairman: Sergey Malykh, Dr. of Psychology, professor, Academician of the Russian Academy of Education, Head of the Laboratory of age Psychogenetics at Russian Academy of Education (Moscow, Russia).

Vice-chairman: Elvira Symanyuk, Dr. habil. of Psychological Sciences, Head of the Department of General and Social Psychology, Director Ural Institute of Humanities at UrFU, Professor at the Russian Academy of Education, Head of regional scientific centre of the Russian Academy of Education (Ekaterinburg, Russia).

Members:

Olga Vindeker, Olga Dorogina, Irina Yershova, Jes Olesen, Evald Zeer, Sergey Kiselev, Elena Lebedeva, Olga Lomtadidze, Margarita Permyakova, Anna Pecherkina, Alena Sidenkova, Sergey Hatsko, Yuriy Shipitsin, Jaap Kappelle.

6th NOVEMBER, TUESDAY

15.00. Registration of participants (Lenina St, 51, Hall on the ground floor)

16.00–17.00 AUDITORIUM LECTURES

Room **248.**

Longitudinal study of early neurocognitive development in premature children.

Sergey Kiselev, PhD in Psychological Sciences, Head of the Laboratory of Brain and Neurocognitive development, Ural Federal University.

Room **228.**

Study of laser radiation modulation in contact with the frontal tissues of the human body in a different psycho-emotional state.

Arkady Kudryashov, CEO of Chemical Systems Design Bureau, prize winner of the The Scientific and Humanistic Research Foundation Antonio Meneghetti in the field of Biophysics (Ekaterinburg, Russia).

Conference Hall.

Cognitive Sciences and Education

Vladimir Voronin, Psy.D., Professor of the Department of General and Social Psychology of UrFU (Ekaterinburg, Russia).

Mark Itskovich, PhD in Psychological sciences, Principal of the Sverdlovsk Region Educational Orphanage № 17 which implements adapted basic educational programmes (Ekaterinburg, Russia).

15.00–19.00 ENTERTAINMENT PROGRAMME.

7th NOVEMBER, WEDNESDAY

Yeltsin Center,
Boris Yeltsin Street, 3.

9.00–17.00	REGISTRATION OF PARTICIPANTS (Hall, 1 st floor).
10.00–10.30	THE OPENING SESSION OF THE FORUM Welcoming address by: Office of the Plenipotentiary of the President of Russia in the Ural Federal District. Sergey Perestoronin , Minister of Industry and Science of Sverdlovsk region (Ekaterinburg, Russia). Igor Manzhurov , Head of Russian Federal Agency of Scientific Organizations (Ekaterinburg, Russia). Alexandr Semenov , Executive Director of The Branch Union «Neuronet» (Moscow, Russia). Sergey Kortov , Dr. of Economics, PhD in Physics and Mathematics, First Vice-principal of UrFU (Ekaterinburg, Russia). Olga Kovtun , MD, Head of Ural State Medical University, associate member of Russian Academy of Science, honored doctor of the Russian Federation (Ekaterinburg, Russia). Mikhail Sklyar , MD, Executive general manager of the clinic «UMMC – Health» (Ekaterinburg, Russia).
10.30	PLENARY SESSION Moderator: Elvira Symanyuk , Doctor of Psychology, professor, Head of the Department of General and Social Psychology, Director Ural Institute of Humanities at UrFU (Ekaterinburg, Russia).
10.30–11.00	Interdisciplinary cognitive research and education. Sergey Malykh , Doctor of Psychology, professor, Academician of the Russian Academy of Education, Head of the Laboratory of age Psychogenetics at Russian Academy of Education (Moscow, Russia).
11.00–11.30	Neuroscience and education: from research to practice. Svetlana Kostromina Doctor of Psychology, associate Professor, Head of the Department of Psychology of Personality at the Saint-Petersburg State University (St. Petersburg, Russia).
11.30–12.00	COFFEE-BREAK

- 12.00 – 12.30 New aspects of biological systems functioning.
Raphik Sarkisyan, Dr. Biol., Professor, Head of the Laboratory of Integrative Biology at the Orbeli Institute of Physiology of The National Academy of Sciences of the Republic of Armenia (Yerevan, Armenia).
- 12.30–13.00 Cognitive control at the appetite regulation.
Sergey Popov, holder of Habilitation degree in Biology, Head of Department of Molecular Biology and Immunology of Komi Institute of Physiology, UB RAS research centre (Syktyvkar, Russia).
- 13.00–14.00 **LUNCH**
- 14.00–14.30 Biological and social factors of neurocognitive development.
Janna Glozman, Doctor of Psychology, Professor, Chief scientist at the Research Centre of Children’s Neuropsychology named after A. Luria, leading researcher of the Neuropsychological Laboratory of the Department of Psychology at Lomonosov Moscow State University (Moscow, Russia).
- 14.30–15.00 Age-related changes in executive functions and working memory.
Boris Velichkovsky, Doctor of Psychology, associate professor of the Department of Methodology and Psychology at Lomonosov Moscow State University (Moscow, Russia).
- 15.00–15.30 Using multimodal MRI approaches for investigation of brain development.
Sofya Kulikova, PhD, senior research associate at the Research and Training Laboratory of Interdisciplinary Empirical Research, National Research University Higher School of Economics (Perm, Russia).
- 15.30–16.00 **COFFEE-BREAK**
- 16.00–16.30 Large vessel disease and brain dysfunction.
Jaap Kappelle, MD, DmedSci, professor of Neurology, University Medical Center Utrecht, Department of Neurology (Utrecht, Netherlands).
- 16.30–17.00 Neurobiological mechanisms of migraine.
Jes Olesen, MD, DmedSci, professor of Neurology, University of Copenhagen, Danish headache Center, Glostrup University Hospital (Copenhagen, Denmark).
- 17.00–17.30 Psychological and psychophysiological aspects of professional development at the third age.
Elvira Symanyuk, Doctor of Psychology, professor, Head of the Department of General and Social Psychology, Director Ural Institute of Humanities at UrFU (Ekaterinburg, Russia).

8th NOVEMBER, THURSDAY

10.00–11.30 Panel discussion (Symanyuk E, Zeer E). Assembly hall (Lenina St, 51, Conference Hall, 3 rd floor)							
10.00 SECTIONAL SESSIONS, WORKSHOPS AND SPECIAL PROJECTS (Area in front of Demidov Hall, 3 rd floor)							
Section 1 Neuromedicine (Sidenkova A., Esina O.). Room 425	Section 2 Neuroeducation (Kostromina S, Pecherikina A.) Room 314	Section 4 Applied aspects of cognitive neurosciences (Bodnar A., Vindeker O.) Room 314a	Section 6 The rational agent strategies: reasoning and decision- making (Zaitsev D., Kislov A.) Room 315	Young researchers section Neurotechnologies of future (Pavlova S., Lavrova M.) Room 228	Section 7 The neurosciences development and social modelling: security issues (Shipitsin Y.) Room 237	Applied Neurosciences: presentation of special projects, Track 2, part 1 (Dorogina O.) Part 1 Room 413	Section 8 Neurobiological and neuropsychological aspects of neurorehabilitation of patients (Berebin M.) Room 248
11.30–12.00 COFFEE BREAK, STARTING OF DEMONSTRATION AREA (area in front of Demidov hall, 2 nd floor)							
Section 1 Neuromedicine (Sidenkova A., Esina O.). Room 425	Section 3 Interdisciplinary studies of the developing brain (Lvova O., Gusev V.) Room 314	Section 5 Early neurocognitive development (Kiselev S., Glozman J.) Room 314a	Section 6 The rational agent strategies: reasoning and decision- making (Zaitsev D., Kislov A.) Room 315	Young researchers section Neurotechnologies of future (Pavlova S., Lavrova M.) Room 228	Section 7 The neurosciences development and social modelling: security issues (Shipitsin Y.) Room 237	Applied Neurosciences: presentation of special projects, Track 2, part 2 (Dorogina O.) Part 2 Room 413	Section 8 Neurobiological and neuropsychological aspects of neurorehabilitation of patients (Berebin M.) Room 248
Workshops by the experts of the Institute of Natural Sciences and Mathematics of the Ural Federal University (Lomtatidze O., Hatsko S.)							
*Takes place at the following address: Kuibysheva Street, 48 Room 462							
*Takes place at the following address: Kuibysheva Street, 48 Rooms 462, 464, 472							
13.30–14.30 LUNCH							
14.30.– 16.00 Special session on Neuromedicine							
15.45–16.15 POSTER SESSION							
16.15.– 17.30 Special session on Applied Aspects of Neuroscience							
17.30–17.45 Closure of the Forum							
17.45–19.00 Goodbye Party (Cafeteria, Turgeneva Street, 4, 1 st floor).							

THE NEUROSCIENCES DEVELOPMENT AND SOCIAL MODELLING: SECURITY ISSUES

DEMONSTRATION AREA

Hall in front of Demidov Hall, 2nd floor

11.30–13.00

Presentation of software and hardware system which fixes laser radiation modulation in contact with the frontal tissues of the human body in a different psycho-emotional state.

Arkady Kudryashov, CEO of Chemical Systems Design Bureau, prize winner of the The Scientific and Humanistic Research Foundation Antonio Meneghetti in the field of Biophysics, Semen Parkyshev, Research Engineer, Chemical Systems Design Bureau LLC (Ekaterinburg, Russia).

Project «STRIGHT BACK».

Pavlova Svetlana, leading specialist and junior research associate of Educational and Scientific Laboratory of Neurotechnologies of UrFU (Ekaterinburg, Russia).

GAME WITH UNSTABLE SUPPORT

Olga Dorogina, PhD in Psychological Sciences, associate professor of the Department of Clinical Psychology and Psychophysiology of UrFU.

Olesya Demesheva, trainer of the fitness club «Life fit», 5th year student of the Department of clinical psychology of the Ural Federal University (Ekaterinburg, Russia).

POSTER SESSION

Communicative-associative logic of a cognitive professional robot with imitative thinking.

Evgeny Bryndin, Head of Research centre Natural informatics (Novosibirsk, Russia).

Field research on real-time stress detection by means of EEG.

Sergey Goryushko, Head of the research Department at Laboratory of Knowledge; **Natalya Patrikeeva**, Head of the INTELIN project (Moscow, Russia).

Simulator of point pulse neural networks based on PyTorch.

Igor Kralik, programmer at JetTeam (Ekaterinburg, Russia).

SPECIAL SESSION ON NEUROMEDICINE

Demidov Hall

14.30–15.00. Genetic and proteomic studies of schizophrenia.

Svetlana Ivanova, MD, Professor, Deputy Director for research at the Research Institute of Mental Health of Tomsk National Research Medical Institute, Head of the Laboratory of Molecular Genetics and Biochemistry, Tomsk, Russia.

15.00–15.45. Memory in aging and early Alzheimer's disease.

Matthias Riepe – MD, professor of the Department of Geriatrics and Old Age Psychiatry, Ulm University (Ulm, Germany).

15.45–16.15 POSTER SESSION

area in front of Demidov Hall

SPECIAL SESSION ON APPLIED ASPECTS OF NEUROSCIENCE

Demidov Hall

16.15–17.00. Lipid and transcriptome maps of the human brain.

Philipp Khaytovych, PhD, Professor of Shanghai Research Institute of Computational Biology, Head of the laboratory of Skoltech (Moscow, Russia).

17.00–17.30. Modern gadgets as a source of data on the behavioral model of users.

Andrey Petrov, Business Development Director, Modern Service Systems LLC, founder of the ARGIN.RU project.

17.30–17.45 CLOSURE OF THE FORUM

Demidov Hall

17.45–19.00 GOODBYE PARTY

Cafeteria, Turgeneva Street, 4, 1st floor

PANEL DISCUSSION «NEUROTECHNOLOGIES OF PROFESSIONAL DEVELOPMENT OF A PERSON IN AGING».

10.00–11.30. Room Conference Hall.

Moderators:

Symanyuk Elvira, Dr. of Psychology, professor, Head of the Department of General and Social Psychology of UrFU.

Evald Zeer, Dr. of Psychology, professor, associate member of Russian Academy of Education, Head of the Department of Educational Psychology and Professional Development of Russian State Vocational Pedagogical University.

Experts:

Elena Yugova, Ped.D., associate professor at the Department of Theory and Methodology of Physical Education at Russian State Vocational Pedagogical University.

Tamara Sergeeva, PhD in Psychological science, associate professor of the Department of General and Social psychology of UrFU.

Vera Tretyakova, Phil.D., Professor at the Department of Social Pedagogy and Psychology at Russian State Vocational Pedagogical University

The main directions of the problem field of discussion:

Methodology of professional development of a person at an advanced age (**Evald Zeer, Dr. of Psychology**, professor, associate member of Russian Academy of Education, Head of the Department of Educational Psychology and Professional Development of Russian State Vocational Pedagogical University).

Neurotechnologies of the professional development of a person at an advanced age (**Symanyuk Elvira**, Dr. of Psychology, professor, Head of the Department of General and Social Psychology).

Psychophysiological predictors of resilience formation in aging (**Elena Yugova**, Ped.D., associate professor at the Department of Theory and Methodology of Physical Education at Russian State Vocational Pedagogical University).

Psychological characteristics of self-regulation of emotional and volitional states at an advanced age (**Svetlana Larionova**, specialist in teaching methods of the Training Department of the Ural law Institute of the Ministry of Internal Affairs of Russia).

Neuropsychological determinants of resilience at an advanced age (**Georgy Borisov**, teaching assistant of the Department of General and Social Psychology of the Ural Federal University).

Psychological support of the cyber-health of elderly people (**Maria Zinnatova**, PhD in Psychology, associate professor of the Department of Educational Psychology and Professional Development of Russian State Vocational Pedagogical University).

Socio-psychological engineering people's life activity at an advanced age (**Vera Tretyakova**, Phil.D., Professor at the Department of Social Pedagogy and Psychology at Russian State Vocational Pedagogical University).

Correction of the individual life track of an elderly person (**Tamara Sergeeva**, PhD in Psychology, associate professor of the Department of General and Social psychology of UrFU).

SECTION 1. NEUROMEDICINE.

10.00–13.30 Room 425.

Moderators:

Sidenkova Alena, MD, Professor of the Department of Psychiatry, Narcology and Psychotherapy at Ural State Medical University, Head of Neurotechnologies Laboratory of UrFU (Ekaterinburg, Russia).

Olga Esina, MD, teaching assistant of the Department of Psychiatry, Psychotherapy and Narcology at Ural State Medical University (Ekaterinburg, Russia).

Reports:

Features of information contact between the client and the therapist in the process of psychotherapeutic counseling.

Arkady Kudryashov, CEO of Chemical Systems Design Bureau, prize winner of the The Scientific and Humanistic Research Foundation Antonio Meneghetti in the field of Biophysics (Ekaterinburg, Russia).

Cognitive function the person with desynchronization.

Mikhail Borisenkov, Dr. Biol., senior research associate, the group of functional foods, Institute of Physiology of Komi Research Centre of Ural Branch of RAS (Syktyvkar, Russia).

Early markers of CNS' aging.

Sidenkova Alena, MD, Professor of the Department of Psychiatry, Narcology and Psychotherapy at Ural State Medical University, Head of Neurocognitive Technologies Laboratory of UrFU (Ekaterinburg, Russia).

Diffusion weighted magnetic resonance imaging and its applications.

Sofya Kulikova, PhD, senior research associate at the Research and Training Laboratory of Interdisciplinary Empirical Research, in the sector of empirical analysis of markets and companies, National Research University Higher School of Economics (Perm, Russia).

11.30–12.00 COFFEE BREAK

Organic personality disorder in patients with alcoholism as a target of neurorehabilitation at an addiction clinic.

Anastasia Novokhatsky, senior lecturer of the Department of clinical Psychology of South Ural State University, Head of the psychological service of the Chelyabinsk Regional Clinical Narcological Hospital (Chelyabinsk, Russia).

Ekaterina Chevardina, medical psychologist at the Chelyabinsk Regional Clinical Narcological Hospital (Chelyabinsk, Russia).

The impact of modern cognitive technologies on speech and cognitive functions of child.

Sharonova Elena Nikolaevna, neurologist at «UMMC – health», Ekaterinburg.

13.30–14.30 LUNCH

SECTION 2. NEUROEDUCATION.

10.00–11.30 Room 314.

Moderators:

Svetlana Kostromina, Dr. of Psychology, Head of the Department of Psychology of Personality, Professor of the Department of Psychology of Personality at the Saint-Petersburg State University (St. Petersburg, Russia). Anna Pecherkina, PhD in Psychological Sciences, Head of Department of Psychology (Ekaterinburg, Russia).

Reports:

Neurotechnologies at the modern university from teacher's and student's perspective.

Marina Klemenskikh, PhD in Pedagogical Sciences, associate professor at the Department of Pedagogy and Educational Psychology, UrFU, Ekaterinburg, Russia.

Features of the intelligence structure in younger schoolers taught by means of gadgets.

Sergey Vodyakha, PhD in Psychological Sciences, Ural State Pedagogical University (Ekaterinburg, Russia).

Personal security in the educational space: ration or affect?

Olesya Bubnovskaya (co-authored with: Leonidova V, Lobach D, Lysova A, Sergievich A) PhD in Psychological Sciences, Professor of Russian Academy of Education, Far Eastern Federal University (Vladivostok, Russia).

An fNIRS study on the functional lateralization of calculation in the parietal cortex based on handedness

Maria Sitnikova, PhD in Psychological Sciences, associate professor at Belgorod State National Research University, Head of the Research Institute of Neuroeducation and Cognitive Neuropsychology (Belgorod, Russia).

Educational kinesiotherapy in overcoming psychological barriers to professional development of the individual during adult education.

Marina Vorobyeva, PhD in Psychological Sciences, associate professor of the Department of acmeology and environmental psychology of USPU, psychologist of superior expert category at «Classical gymnasium» № 104 (Ekaterinburg, Russia).

Neuropsychological aspects of adaptation processes in multicultural educational environment.

Endzhe Latypova, PhD in Psychological Sciences, Director of the Scientific and Educational Centre of Practical Psychology of the Institute of Psychology and Education at Kazan Federal University (Kazan, Russia).

Neuroscience of multicultural classrooms: impediments to effective learning.

Efremova Evgenia, Ed. M. Mind, Brain & Education, Harvard Graduate School of Education, Ural Federal University, Laboratory of Brain and Neurocognitive Development (Ekaterinburg, Russia).

11.30–12.00 COFFEE BREAK

SECTION 3. INTRADISCIPLINARY STUDIES OF THE DEVELOPING BRAIN.

12.00–13.30. Room **314.**

Moderators:

Olga Lvova, MD, neurologist, head scientist researcher at the Laboratory of Brain and Neurocognitive Development at UrFU, Ekaterinburg, Russia.

Vadim Gusev, PhD in Medicine, Head of the neurological Department of Central city clinical hospital № 23 (Ekaterinburg, Russia).

Reports:

Genetics aspects of diseases of the nervous system.

Ilya Kanivets, PhD in Medicine, geneticist, Head of Genetics Division at the GENOMED Clinic (Moscow, Russia).

Nutritiology: The effect on the brain.

Natalya Chistyakova, dietarian, nutritionist and gastroenterologist at SIBNEUROMED city neurological centre (Novosibirsk, Russia).

The influence of creativity on cognitive functions (by the case of Pablo Picasso).

Vadim Gusev, PhD in Medicine, Head of the neurological Department of Central city clinical hospital № 23 (Ekaterinburg, Russia).

Signal detection model for alternating discriminative stimuli.

Alexandr Sergeev, PhD in Physics and Mathematics, associate professor at the Department of IT and Automation of UrFU (Ekaterinburg, Russia).

13.30–14.30. LUNCH

SECTION 4. APPLIED ASPECTS OF COGNITIVE NEUROSCIENCES.

10.00–11.30. Room 314a.

Moderators:

Bodnar Alexandr, PhD in Pedagogy, associate professor of the Department of General and Social psychology (Ekaterinburg, Russia).

Vindeker Olga, PhD in Psychology, associate professor of the Department of Pedagogy and Educational Psychology of UrFU (Ekaterinburg, Russia).

Reports:

The affective component of intergroup adaptation of construction company's personnel in the context of neuromanagement of organization leaders.

Alexandr Bulgakov, Dr. of Psychology, Professor of the Department of Social Psychology at the Institute of Psychology named after Vygotsky, Russian State University for the Humanities (Moscow, Russia).

Comparative analysis of psychophysiological functions of athletes in adaptation to the conditions of Russian North.

Mikhail Vilensky, post-graduate student of Surgut State University (Surgut, Russia).

Genetic correlates of emotional intelligence in representatives of different ethnic groups of the South of Russia.

Elena Vorobyova, Dr. of Psychology, Don State Technical University (Rostov-on-Don, Russia).

Development of neurorehabilitation programmes relative to the aims of medical psychologists training.

Nadezhda Yepaneshnikova, senior lecturer at the Department of Clinical Psychology, South Ural State University (Chelyabinsk, Russia).

Aspects of visual perception of emotionally loaded scenes in carriers of different genotypes of genes BDNF, COMT, HTR2A.

Ekaterina Kovsh, PhD in Psychology; Vladimir Kosonogov, PhD (Spain); Pavel Ermakov, Dr. Biol., Professor, Academician of the Russian Academy of Education, Academy of Psychology and Pedagogy of South Federal University; Elena Vorobyova, Psy.D., professor of Russian Academy of Education, Don State University (Rostov-on-Don, Russia).

Assessment of addictive risk factors for oculomotor reactions in official activities.

Vera Nikishina, Dr. of Psychology, Professor of Russian National Research Medical University named by N. Pirogov (Moscow, Russia).

11.30–12.00 COFFEE BREAK

SECTION 5. EARLY NEUROCOGNITIVE DEVELOPMENT.

12.00–13.30 Room 314a.

Moderators:

Janna Glozman, Dr. of Psychology, Professor, Chief scientist at the Research Centre of Children's Neuropsychology named after A. Luria, leading researcher of the Neuropsychological Laboratory of the Department of Psychology at Lomonosov Moscow State University (Moscow, Russia).

Sergey Kiselev, PhD in Psychological Sciences, Head of the Laboratory of Brain and Neurocognitive development, Ural Federal University (Ekaterinburg, Russia).

Reports:

Early neurocognitive development in children with the risk of autism.

Sergey Kiselev, PhD in Psychological Sciences, Head of the Laboratory of Brain and Neurocognitive development, Ural Federal University (Ekaterinburg, Russia).

'Beta version' of neuroplasticity or absolute beta power in preterm infants as electroencephalographic correlate of synaptogenesis in infants.

Dmitry Chegodaev, junior research associate at Laboratory of Brain and Neurocognitive Development of UrFU (Ekaterinburg, Russia).

Specifics of the application of neuropsychological diagnosis and correction in modern kindergarten.

Svetlana Shabas, PhD in Psychological sciences, associate professor of the Department of Social Psychology at the The Liberal Arts University (Ekaterinburg, Russia).

Diagnostics problems of minimal brain dysfunction.

Gennady Butorin, Dr. of Psychology, Professor at the Department of Theoretical and Applied Psychology of South Ural State University of Humanities and Education (Chelyabinsk, Russia).

Early childhood development: opportunities and limitations.

Natalia Vasyagina, Dr. of Psychology, Professor, Head of the Department of Educational Psychology, Institute of Psychology at Ural State Pedagogical University (Ekaterinburg, Russia).

The use of unsupervised machine learning technologies in the diagnosis of psychological disorders of childhood.

Alexey Piyanzin, PhD in Medicine, associate professor at the Altai State University (Barnaul, Russia).

13.30–14.30 LUNCH

SECTION 6. THE RATIONAL AGENT STRATEGIES: REASONING AND DECISION-MAKING.

10.00–11.30 Room 315.

Moderators:

Dmitry Zaitsev, Dr. Phil., Professor of the Chair of Logic at the Philosophical Department of Moscow State University, Deputy head of the Philosophical Department of MSU on development affairs.

Alexey Kislov, PhD in Philosophical sciences, Head of the Department of Ontology and Epistemology of UrFU (Ekaterinburg, Russia).

Reports:

Rational multi-agency.

Dmitry Zaitsev, Dr. Phil., Professor of the Chair of Logic at the Philosophical Department of Moscow State University, Deputy head of the Philosophical Department of MSU on development affairs (Moscow, Russia).

Information Image Forming for Interoperability of Multi-robot System.

Sergey Kruglikov, PhD in Physics and Mathematics, Associate Professor, Head of the Laboratory of Applied System Research (Intelligent systems and robotics) (Ekaterinburg, Russia).

Implicit agency in the logical semantics of deontic operators

Alexey Kislov, PhD in Philosophical sciences, associate Professor, Head of the Department of Ontology and Epistemology of UrFU (Ekaterinburg, Russia).

Partial skolemization in automated theorem proving.

Oleg Okhotnikov, senior lecturer Department of IT and Design Automation of UrFU, Associate at Department of intelligent Systems and Robotics, Ural Federal University (Ekaterinburg, Russia).

Indirect communication and structure of argumentation: problems of identification implicit arguments

Ukolov Sergey, PhD in Philosophical sciences, associate Professor of the Department of Ontology and Epistemology of UrFU (Ekaterinburg, Russia).

11.30–12.00 COFFEE BREAK

The evolution of the artificial psyche.

Andrey Komarov, lecturer at the Department of Algebra and Fundamental Informatics of Ural Federal University, Department of intelligent systems and robotics of Ural Federal University (Ekaterinburg, Russia).

Representation of computability in the HTM-model.

Ilya Krasov, post-graduate student at the Department of Ontology and Epistemology of UrFU (Ekaterinburg, Russia).

Thematic modeling in the design of intelligent agents.

Oksana Mushtak, Master student of the Department of Information systems and Technologies of UrFU (Ekaterinburg, Russia).

The problem of converting the existential into the rational: about the work of automatic recommendation systems in the field of reading.

Margarita Gudova, Dr. habil. in Cultural Studies, Professor at the Department of Philosophy, Philosophical Anthropology, Aesthetics and Theory of Culture at Ural Institute of Humanities, UrFU; Valery Gudov, PhD in Philological Sciences, associate Professor, Deputy Director of Ural Institute of Humanities of UrFU for education affairs, associate professor of Russian and foreign literature (Ekaterinburg, Russia).

Intellectual Property Management Strategies: Opportunities and Challenges of Design an Autonomous Intellectual Agent.

Anna Kartasheva, PhD in Philosophical sciences, associate Professor, Head of the Department of Ontology and Epistemology of UrFU (Ekaterinburg, Russia).

SECTION 7. THE NEUROSCIENCES DEVELOPMENT AND SOCIAL MODELLING: SECURITY ISSUES.

10.00–13.30. Room 237.

Moderator:

Yuriy Shipitsin, associate professor of the Department of Foreign Regional Studies of Ural Institute of Humanities of UrFU, expert of the Civic Chamber of Sverdlovsk Region (Ekaterinburg, Russia).

Expert:

Sergey Voronin, Advisor on civil-patriotic education of students at Ural State University of Economics, awarded the Hero of Russia medal (Ekaterinburg, Russia).

Roman Shadrin, awarded the Hero of Russia medal (Ekaterinburg, Russia).

Reports:

The technologies of social modeling in the development of modern means of mass communication.

Yuriy Shipitsin, associate professor of the Department of Foreign Regional Studies of Ural Institute of Humanities of UrFU, expert of the Civic Chamber of Sverdlovsk Region (Ekaterinburg, Russia).

The question of psychological technologies usage in a hybrid war.

Mikhail Bepalov, military psychologist, political scientist, expert in the field of hybrid wars (Ekaterinburg, Russia).

Neuropsychological impact on society as a mechanism of expansion and management of civilization.

Vladimir Koltsov, Head of the regional branch of the all-Russian public organization «all-Russian Police Association» (Ekaterinburg, Russia).

The smart things of XXI century.

Vladimir Okhesin, PhD in Physics and Mathematics, specialist in the field of communication and modern mass communication (Ekaterinburg, Russia).

11.30–12.00 COFFEE BREAK

Information technologies and their impact on the development of the individual and society in modern Russia.

Stepan Khalturin, expert in the field of IT technologies, programmer (Ekaterinburg, Russia).

Analysis of personal development of young people of military age in modern Russia.

Arkady Voropkalo, the Chairman of Volunteer Society for Cooperation with the Army, Aviation, and Navy of the Sverdlovsk region (Ekaterinburg, Russia).

Psychological security and neuronet.

Lubov Okonechnikova, PhD in Psychological sciences, associate professor of the Department of General and Social psychology of UrFU (Ekaterinburg, Russia).

Issues of combining the efforts of science, security services, law enforcement structures and departments, public organizations in the development of a methodology for ensuring the security of individuals and society in the context of a modern hybrid war.

Vladimir Krupkin, Chairman of the Coordinating Bureau of the Security Council in the Ural Federal District, Chairman of the Board of veterans of the FSB in the Sverdlovsk region (Ekaterinburg, Russia).

SECTION 8. NEUROBIOLOGICAL AND NEUROPSYCHOLOGICAL ASPECTS OF NEUROREHABILITATION PATIENTS.

10.00–13.30 Room 248.

Moderator:

Mikhail Berebin, PhD in Medicine, associate Professor, head of the Department of Clinical Psychology of South Ural State University, chief external expert of the Ministry of Health of Russia on Medical Psychology in the Ural Federal district (Chelyabinsk, Russia).

Reports:

Problems and prospects of organization and implementation of neurorehabilitation of patients in the health care system of Russia

Mikhail Berebin, PhD in Medicine, associate Professor, head of the Department of Clinical Psychology of South Ural State University, chief external expert of the Ministry of Health of Russia on Medical Psychology in the Ural Federal district (Chelyabinsk, Russia).

Training of cognitive abilities and skills in the system of neuropsychological and medical rehabilitation of patients with the consequences of acute cerebrovascular disorders.

Yulia Zlobina, doctoral degree-seeking student of the Department of Clinical Psychology of Chelyabinsk State University (Chelyabinsk), Russia.

Natalya Zinovieva, Head of neurological Department for patients with acute cerebrovascular diseases, winner of the "Red Banner of Labour" award, City Clinical Hospital № 1 (Chelyabinsk, Russia).

Cognitive errors of individuals with psychosomatic diseases.

Ekaterina Legostaeva, PhD in Psychological sciences, associate professor of the Department of General Psychology and Conflictology of the Institute of Psychology of Ural State Pedagogical University, Head of the scientific research area «Cognitive errors in professional communication» (Ekaterinburg, Russia).

Neurocognitive rehabilitation methods in children with speech disorders and epilepsy.

Tatiana Tomenko, PhD in Medicine, neurologist, epileptologist of the clinic «UMMC-health» (Ekaterinburg, Russia).

11.30–12.00 COFFEE BREAK

Models of posttraumatic stress disorder and cognitive impairment.

Alexandr Zhdanov, 2nd year master student in Human and Animal Physiology (Ekaterinburg, Russia).

Analysis of modern computerized diagnostic and correction programmes in pediatric neuropsychology.

Alena Astaeva, PhD in Psychological sciences, associate professor of Clinical Psychology Department of South Ural State University, Chelyabinsk, Russia.

Alena Malkova, post-graduate student of Clinical Psychology Department of South Ural State University (Chelyabinsk, Russia).

The relationship between the dysfunctional nature of temporal perception and disorders of prospective memory in alcohol dependence

Irina Zapesotskaya, Psy.D., associate professor, Head of the Department of Health Psychology and Neuropsychology at Kursk State Medical University of Ministry of Health of Russia (Kursk, Russia).

SECTION 9* TRANSLATIONAL BIOMEDICINE.

10.00–11.30

**Attention! The section takes place on Kuibysheva Street, 48.*

Room **462**.

Moderators:

Olga Lomtadidze, PhD in Psychological Sciences, associate professor at the Department of Biology and Fundamental Medicine

Sergey Hatsko, Head of Anatomical and Physiological Experimental Laboratory of the Department of Experimental Biology and Biotechnology of INSM UrFU (Ekaterinburg, Russia).

Reports:

«Biopsychiatry: from a fish to a human»: experimental techniques.

Sergey Hatsko, Head of Anatomical and Physiological Experimental Laboratory of the Department of Experimental Biology and Biotechnology of INSM UrFU (Ekaterinburg, Russia).

hardscore@mail.ru

Neurophysiological mechanisms of aggression.

Konstantin Zabegalov, 2nd year postgraduate student of Physiology Department (Ekaterinburg, Russia). hatokiri@mail.ru

Changes in behavioral and cognitive functions after epileptic seizures.

Sergey Krivopalov, research associate at the Ural branch of the Institute of Immunology and Physiology of Russian Academy of Science (Ekaterinburg, Russia).

Formation of hemispheric asymmetry of the location of motor representations in early postnatal ontogenesis in rodents.

Nina Khudyakova, PhD in Biology, associate professor at the Department of Immunology and Cellular Biology at Udmurt State University (Izhevsk, Russia).

Non-invasive evaluation techniques of neurorehabilitation effectiveness based on the integration of neurobiology and information technology.

Anton Pashkov, junior research associate at the Research and Development Centre «Medical and psychological clinic», Chelyabinsk State University (Chelyabinsk, Russia).

11.30–12.00. COFFEE BREAK

WORKSHOPS (INSTITUTE OF NATURAL SCIENCES AND MATHEMATICS)

12.30–13.00 Kuibysheva Street, 48

<p>Zebrafish (<i>Danio rerio</i>) as a model object for study in biology and medicine</p> <p><i>Sergey Hatsko</i>, Head of Anatomical and Physiological Experimental Laboratory of the Department of Experimental Biology and Biotechnology of INSM UrFU.</p> <p><i>Alexandr Zhdanov</i>, 2nd year master student in Human and Animal Physiology</p> <p><i>Maxim Bytov</i>, 4th year Bachelor student in Human and Animal Physiology</p>	<p>Oculography in cognitive research</p> <p><i>Yevgeniya Isakova</i>, 2nd year master student in Human and Animal Physiology</p>	<p>Development of canistherapy in Ekaterinburg</p> <p><i>Olga Lomtadidze</i>, PhD in Psychological Sciences, associate professor at the Department of Biology and Fundamental Medicine</p> <p><i>Lyubov Vladykina</i>, clinical psychologist of psychiatric hospital № 3.</p> <p><i>Marina Ivanova</i>, Executive general manager of socio-psychological rehabilitation non-profit organization «Colors of Life».</p>
<p style="text-align: center;">Kuibysheva Street, 48, Room 462</p>	<p style="text-align: center;">Kuibysheva Street, 48, Room 464</p>	<p style="text-align: center;">Kuibysheva Street, 48, Room 472</p>

SECTION OF YOUNG RESEARCHERS «NEUROTECHNOLOGIES OF FUTURE».

10.00–13.30 Room 228.

Pavlova Svetlana, leading specialist and junior research associate of Educational and Scientific Laboratory of Neurotechnologies of UrFU (Ekaterinburg, Russia).

Maria Lavrova, junior research associate at Laboratory of Brain and Neurocognitive Development (Ekaterinburg, Russia).

Schoolers projects' presentation «Science debut»:

10.00–10.45

Study of human emotions and their relationship with physiological parameters. Supervisor: Dauren Kasanov, 4th year Bachelor student, in Clinical Psychology at UrFU (Ekaterinburg, Russia).

Early diagnosis of anorexia.

Supervisor: Maria Lavrova, junior research associate at Laboratory of Brain and Neurocognitive Development (Ekaterinburg, Russia).

Study of psychophysiological indicators of fatigue in adolescents of 16–18 years. Supervisors: Yulia Merenina, Dmitry Tarasov, 3rd year students of Bachelor programme in Psychology (Ekaterinburg, Russia).

Student works:

10.45–11.30

Study of the possibilities of the method of transcranial stimulation of the brain to improve the individual cognitive abilities of a person.

Dauren Kasanov, 4th year Bachelor student, in Clinical Psychology at UrFU (Ekaterinburg, Russia).

The role of the hippocampus in the formation of electrophysiological activity of the brain in normal and structural pathology.

Elena Davydova, 2nd year master student in Cognitive Neurosciences, at the Department of Psychology (Ekaterinburg, Russia).

Development of fine motor skills of children with disabilities in a childrens' educational institution.
Lina Goryachkina, student of Mari State University (Yoshkar-Ola, Russia).

Aspects of speech of patients with schizophrenia.

Alexey Khristolubov, student of the Ural Federal University (Ekaterinburg, Russia).

Reports of scientists:

12.00–13.30

IT technologies for remote monitoring via GPRS and analysis of electroencephalographic data on a remote processing terminal.

Ivan Dachtin, junior research associate at the Research and Development Centre «Medical and psychological clinic», Chelyabinsk State University, Chelyabinsk, Russia.

Alexandr Lyndin, student of the Higher School of Electronics and Computer Science at South ural State University (Chelyabinsk, Russia).

The interrelation of students' research activity with the peculiarities of cognitive-emotional sphere.

Marina Pakhmutova, post-graduate student, specialist of the Centre of social and psychological research at the Pedagogical Institute of the Mari State University (Yoshkar-Ola, Russia).

Statement of research objectives of the influence of the functional state of the operator on generation quality of the operating signal.

Elena Natura, post-graduate student of Lomonosov Moscow State University (Moscow, Russia).

The biological basis of individual differences: the dynamics of psycho-physiological parameters under stress conditions.

Sviridova Yuilia, graduate student of Lomonosov Moscow State University (Moscow, Russia).

APPLIED NEUROSCIENCES: PRESENTATION OF SPECIAL PROJECTS (Track 1)

10.00-11.30 Room 325.

Moderator:

Maltsev Alexey, PhD in Biology, associate professor of the Department of General and Social psychology of UrFU (Ekaterinburg, Russia).

Special projects:

Neurodevelopmental strategies and functional approach in early childhood habilitation.

Dmitry Baranov, PhD in Medicine, neurologist of the European medical centre «UMMC-Health» (Ekaterinburg, Russia).

The devices that are sensitive to biological objects (Bioscope and Speculoscope).

Raphik Sarkisyan, Dr. Biol., Professor, Head of the Laboratory of Integrative Biology at the Orbeli Institute of Physiology of The National Academy of Sciences of the Republic of (Armenia, Yerevan).

11.30–12.00 COFFEE BREAK

Music therapy.

Olga Chernova, music therapist of the Cognitive Technologies Centre at the Medical Centre «UMMC-Health», choirmaster of boys chapel of the Sverdlovsk State Children's Philharmonia (Ekaterinburg, Russia).

APPLIED NEUROSCIENCES: PRESENTATION OF SPECIAL PROJECTS (Track 2)

10.00-11.30 Room 413.

APPLIED NEUROSCIENCES: PRESENTATION OF SPECIAL PROJECTS.

Moderator:

Olga Dorogina, PhD in Psychological Sciences, associate professor of the Department of Clinical Psychology and Psychophysiology of UrFU (Ekaterinburg, Russia).

Special projects:

Speech exercises for the development of the cortex and hemispheric interaction.

Tatiana Tenkacheva, Ph D. in Pedagogical Sciences, associate professor of Department of Speech Therapy and of Clinic of dysontogenesis of Ural State Pedagogical University, Ekaterinburg, Russia.

Games with unstable support.

Dorogina Olga, PhD in Psychological Sciences, associate professor of the Department of Clinical Psychology and Psychopsysiology of UrFU (Ekaterinburg, Russia).

Olesya Demesheva, trainer of the fitness club «LIFE fit», 5th year student of the Department of clinical psychology of the Ural Federal University (Ekaterinburg, Russia).

11.30–12.00 COFFEE BREAK

Medical and social project «Memory room».

Sklyarova Svetlana, neuropsychologist at Central city clinical hospital № 6, Tcygankov Roman, neuropsychologist at Central city clinical hospital № 6 (Ekaterinburg, Russia).

Stress dealing technique Anti-stress massage. Destress prevention.

Elena Khlystova, PhD in Psychological Sciences, associate professor of the Department of Clinical Psychology and Psychophysiology of UrFU, associate professor of the Department of Special Pedagogy and Special Psychology of Ural State Pedagogical University (Ekaterinburg, Russia).

POSTER SESSION

Area in front of Demidov hall, 2nd floor

16.00–16.30

The modeling of emotional resonance and evaluation of its effects on the body

Pavel Baiguzin, Dr. Biol., Professor at Chelyabinsk State Pedagogical University; **Daria Shibkova**, Dr. Biol., Professor at Chelyabinsk State Pedagogical University (Chelyabinsk, Russia).

The possibilities of computer graphics as an art therapeutic technique in the structure of cognitive training in normal aging.

Valentina Naumova, PhD in Psychological sciences, associate professor of Department of Theoretical and Practical Psychology of Kamchatka State University named after Vitus Bering (Petropavlovsk-Kamchatsky, Russia).

Cyberspace and personal autonomy.

Gulmira Topanova, PhD in Psychological sciences, associate professor of Department of Psychology at Pavlodar State Pedagogical University (Pavlodar, Kazakhstan).

Neuromedicine, neurogenetics and psychology.

Bodnar Alexandr, PhD in Pedagogy, associate professor of the Department of General and Social psychology of UrFU; **Bodnar Elvira**, PhD in Psychological sciences, associate professor of the Department of General and Social psychology (Ekaterinburg, Russia).

Reflective nature of the expert group in assessing the historical and cultural value of objects of cultural heritage protection in the context of cognitive perception.

Vyacheslav Shihirin, PhD in Economics, associate professor of the Department of Industrial and Civil Construction and Property Survey at UrFU (Ekaterinburg, Russia).

Features of cognitive control in individuals with different ocular dominance.

Marakshina Yulia, research associate at Psychological Institute of Russian Academy of Education (Moscow, Russia).

POSTER SESSION FOR YOUNG RESEARCHERS

Area in front of Demidov hall, 2nd floor

16.00–16.30

Modern aspects of neuroimaging, treatment and rehabilitation of patients with pharmacoresistant form of epilepsy.

Kurbanova Adel, student of Kazan State Medical University (Kazan, Russia).

Cross-cultural study of the impact of using Kanji on interhemispheric asymmetry.

Lunkova Ekaterina, Student of Lomonosov Moscow State University (Moscow, Russia).

Propositional analysis of text.

Budevich Viktoria, student of the Ural Federal University (Ekaterinburg, Russia).

The relationship of behavioral and EEG reactions in terms of solving linguistic and motor tasks in primary school children.

Sudobin Klimentii, Student at Novosibirsk State University (Novosibirsk, Russia).