## IRKUTSK SCIENCE CENTER

DEPARTMENT OF FOREIGN LANGUAGES

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## MULTIDISCIPLINARY YOUTH ACADEMIC RESEARCH CONFERENCE

## «Science Present and Future: Research Landscape in the 21st century»

Program

**May 17-18 2017**

**Section 1.** Maths and IT Technologies

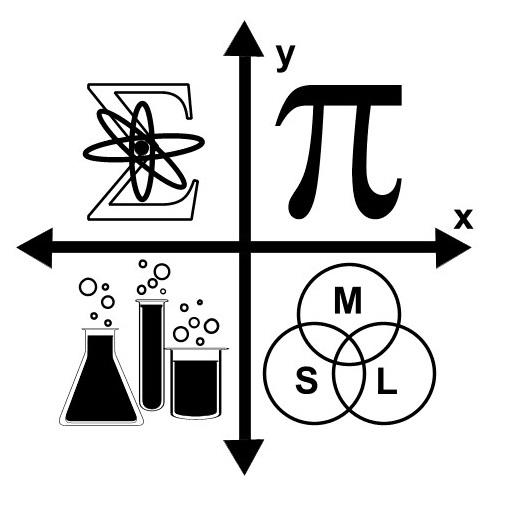
Wednesday, 17 May 2017

**Venue** конференц-зал ИДСТУ СО РАН, № 407

**Time**: 10.00-13.00

**Moderators**: ***Raissa T. Kalinina***, Assistant Professor,ISC SB RAS ***Ivan V. Russkikh***, ISTP SB RAS

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| --- | --- | --- | --- |
|  | Author | Institute | Abstract title |
|  | Aleksey D. Kononov | ISDCT  SB RAS | Robust stability of differential-algebraic equations |
|  | Elena S. Isaeva | ISTP  SB RAS | The space-time distribution of proton flares on the Sun. |
|  | Roman O. Kostromin  Yuri A. Dyadkin | ISDCT  SB RAS | Improving the reliability and performance of a data storage system with RAID technology |
|  | Irina A. Gribanova | ISDCT  SB RAS | SAT-based Сryptanalysis |
|  | Ksenia V. Bedenko | ISDCT SB RAS | Underwater environment generation as a part of simulation modeling system of underwater vehicles |
|  | Ivan V. Russkikh  Dmitry Y. Kolobov | ISTP  SB RAS | Developing optical and electronic devices for high resolution observations |
|  | Maksim .F. Artamonov, RomanV. Vasilyev | ISTP  SB RAS | Modeling interferogram images for the output data simulation of Fabry-Perot interferometer |
|  | Dmitry A. Zatolokin | ISTP  SB RAS | Comparison of ionospheric models of the total electron content for the Glonass system |
|  | Sergey V. Latyshev | ISTP  SB RAS | Correlation of North-South asymmetry of spot-formation with amplitude of 11- year cycles of solar activity |
|  | Roman .K. Fedorov,  Alexander S. Shumilov | ISDCT  SB RAS | Geoportal technologies to support interdisciplinary research |

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**Section 2.** Power Engineering and Technology

Wednesday, 17 May, 2017

**Venue** конференц-зал ИДСТУ СО РАН, № 407

**Time**: 14.00-17.00

**Moderators**: ***Nadezhda N. Efimova***, PhD (Philology), Associate, ISC SB RAS

***Sergey Perzhabinsky,*** PhD (Physics and Mathematics) ESI SB RAS

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| --- | --- | --- | --- |
|  | Author | Institute | Abstract title |
|  | Vitaly E. Alexeyuk | ESI SB RAS | Mathematical models of heat power plants: improvement of identification methods |
|  | Veronika B. Shelekhova | ESI SB RAS | Challenges and prospects of active energy consumption systems |
|  | Ivan L. Trofimov | ESI SB RAS | Data search and processing for pre-project analysis and forecasting of energy cooperation in Northeast Asia. on the example of China |
|  | Anastasiya A. Mukanina | ESI SB RAS | The simulation model of the Multi-Energy System |
|  | Elena A. Andreyeva | ESI SB RAS | Optimization of autonomous energy supply systems using renewable energy sources based on consumer load uncertainty |
|  | Alexander Voronin | ESI SB RAS | Comparative analysis of the operating modes of the traditional and active-adaptive distribution electric Networks |
|  | Matvey A. Khaptageyev | ESI SB RAS | Cybersecurity of Intelligent Power Systems |

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**Section 3.** Life-sciences on the Cutting Edge of Science

Wednesday, 17 May, 2017

**Venue** конференц-зал ИДСТУ СО РАН №401

**Time**: 10.00-13.00

**Moderators**: ***Natalia B. Vinokurova***, Assistant Professor, ISC SB RAS

***Alexandr A. Shishparenok***, SIPPB SB RAS

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| --- | --- | --- | --- |
|  | Author | Institute | Abstract title |
|  | Yuriy M. Konstantinov | SIPPB SB RAS | Natural competence of mitochondria for DNA Uptake: evolutionary significance and areas of application |
|  | Tatyana A. Bolotova | SIPPB SB RAS | Exploring strategies for genetic manipulaton of plant mitochondrial genome |
|  | Alexandr A. Shishparenok | SIPPB SB RAS | Content of ascorbic acid in apple fruits of Siberian crabapple, domestic apple and their hybrids grown in Siberian conditions. |
|  | Vadim I. Bel’kov | SIPPB SB RAS | Role of Tetrapyrrole synthesis-mediated signals in *GDH1* and *GDH2* genes expression in Arabidopsis Thaliana |
|  | Galina V. Podlesnaya | LIN SB RAS | The study of microorganisms of the nitrogen cycle in lake Baikal |
|  | Tatyana A. Babenko | LIN SB RAS | Evaluation of DEHP in Baikal waters |
|  | Yulia P. Sapozhnikova | LIN SB RAS | The effects of intense acoustic stimulation on the auditory behavior and epithelium ultrastructure of Baikal fish |
|  | Yuri I. Litvintsev | IIC SB RAS | Synthesis of new functional organophosphorus compounds based on elemental phosphorus |
|  | Anastasia A. Ivanova | IIC SB RAS | Silver and gold Nanocomposites based by Copolymers of 1-Vinyl-1,2,4-Triazole with N-Vinylpyrrolidone. |
|  | Evgeniy A. Sekretarev | IIC SB RAS | Copolymerization of 1-vinyl-1,2,4-triazole with Allylamine |
|  | Anton S. Ganin | IIC SB RAS | Oxidative addition of unsaturated Triflamide substances and their interaction with each other |

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**Section 4.** Geosciences, Solar Sciences and Hydrosciences: New Frontiers

Wednesday, 17 May, 2017

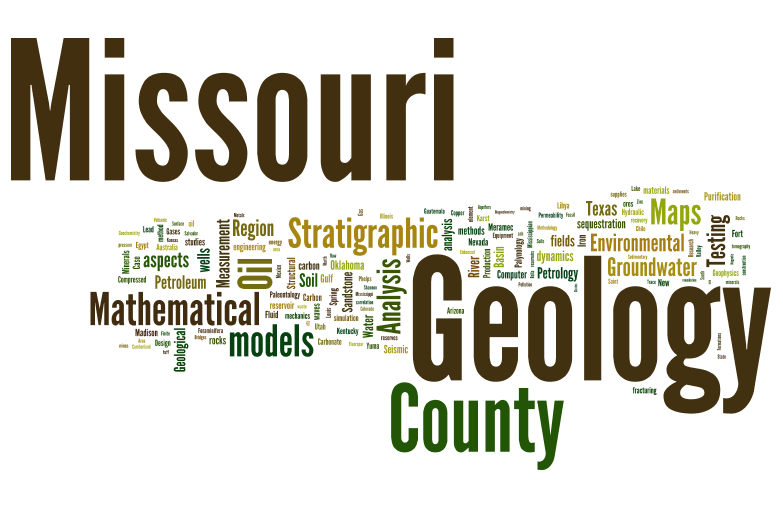
**Venue** конференц-зал ИГХ СО РАН

**Time**: 09.00-12.00

**Moderators**: ***Ludmila A. Shulgina***, Assistant Professor, ISC SB RAS

***Anna A. Zak***, IGC SB RAS

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| --- | --- | --- | --- |
|  | Author | Institute | Abstract title |
|  | Aleksey N. Kosterev | IGC SB RAS | 3-D multielemental geochemical models in solving the problems of geological studies of the Earth interior |
|  | Aleksey O. Mikhalyov | IGC SB RAS | Architecture of information systems and methods of data generalization to create local geoportals for geochemical purposes |
|  | Tatiana G. Bukhaeva  Maria N. Zvereva | IG SB RAS | Gender features of the crimes related to violence in family |
|  | Dmitry O. Sofich: | IGC SB RAS | Optical spectroscopy of double molibdates with rare earths |
|  | Alexander A. Ivanov | IGC SB RAS | Modern methods of hydrodynamic processes calculation |
|  | Alexander I. Bogdanov | IGC SB RAS | Theoretical study of Structural inhomogeniety in lead Zirconate Titanate Piezoelectric Material |
|  | Victoria V. Boroldoeva | IGC SB RAS | Geochemistry of alkaline picrobasalts of the Hentei range. |
|  | Denis А. Belkov | IGC SB RAS | Geodynamic typification of granitoids according to geochemical data |
|  | Anton S. Tarasyuk | IGC SB RAS | Rare Earth elements in the Syenites of Saibar Massif of the Minusinsk trough (Altai-Sayan Rift System) |
|  | Yulia S. Andreeva | IGC SB RAS | Petrogenesis of late mesozoic volcanic rocks of trachybasalt series of Eastern Transbaikalia |

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**Section 5.** Language Research and Teaching: Legacy and Future

Thursday, 18 May, 2017

**Venue** конференц-зал ИДСТУ СО РАН, № 407

**Time**: 10.00-13.00

**Moderator**: ***Galina A. Ageeva***, PhD (Philology), Associate Professor, ISC SB RAS

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|  | Author | Institute | Abstract title |
|  | Anna Y. Suslova | ISU | How to get research articles published in professional journals: “Rules of the game” |
|  | Elizaveta V. Podkamennaya | ISU | Teaching public relations students how to write PR-texts in English |
|  | Natalya V. Yelashkina | INRTU | The importance of study competence |
|  | **Svetlana V. Latysheva** | INRTU | Indirect speech utterance as the categorization of communicative situation |
|  | Raissa T. Kalinina | ISC SB RAS | Noun chain determiners |
|  | Ludmila A. Shulgina | ISC SB RAS | Gentle Grafter vs Romance Scammer |
|  | Natalia B. Vinokurova | ISC SB RAS | Limericks as means of learning English |
|  | Galina A. Ageeva | ISC SB RAS | English language refreshing: positive transfer and interference  (own experience) |
|  | Tatiana V. Bounaeva | IGC SB RAS | Effects of storytelling using web-based multimedia system on English as foreign language speaking |
|  | Nadezhda N. Efimova | ISC SB RAS | Linguo-didactic strategies of polyglots |