



First Announcement

AASSAA – FEB RAS International Workshop on

“Climate change adaptation and mitigation: sustainable agriculture and health security”

Birobidzhan, Russian Federation

01-05 October 2018

jointly Organized by:

Association of Academies and Societies of Sciences in Asia (AASSA)

&

Far Eastern Branch Russian Academy of Sciences (FEB RAS)

Supported by:

InterAcademy Partnership (IAP)

The Association of Academies and Societies of Sciences in Asia (AASSA) was established in 2012 through the merger of the Association of Academies of Sciences in Asia (AASA) and the Federation of Asian Scientific Academies and Societies (FASAS) to promote solidarity and cooperation among the scientific and technological academies in Asia and Australasia and to play a central role in cooperative efforts for further developing the region through science and technology. AASSA currently has a total of 34 member academies and societies representing 30 countries. It is one of the four Regional Networks of IAP, the Global Network of Science Academies.

Far Eastern Branch of the Russian Academy of Sciences (FEB RAS) is nonprofit organization with status of national institution. It was established in 1970 in order to strengthen the role of science in accelerating socio-economic development of the Russian Far East. FEB RAS contains 50 research institutions under 6 regional scientific centers (Amur Scientific Center, Kamchatka Scientific Center, Primorsky Scientific Center, Sakhalin Scientific Center, North-East Scientific Center, and Khabarovsk Scientific Center). The research staff of the FEB RAS is 3,124 scientists, including 16 Academicians, 28 Corresponding Members, 462 Doctors of Sciences, 1,546 PhD and 1,072 workers without degree). Scientific activities are focused on studies of geology and geophysical consistent patterns of evolution and structure of the transition zone from the continent to the ocean, development of scientific basis for technologies for complex processes of automation and making of expert systems, development of communication systems, evaluation of seismic and volcanic danger, fundamental research of biodiversity, evolution and ecology of the plant and animal kingdom of the Far East, study of molecular basis of structure of marine biological systems, investigation of principles of molecular structure of marine biological systems, investigation in molecular immunology, biotechnology, oceanography, history and ethnography. FEB RAS is a member of **Pacific Science Association (PSA)**, a regional non-governmental, scholarly organization that advances science, technology, and sustainable development in the Asia-Pacific region by actively promoting interdisciplinary and international meetings, research, and collaboration.



International Workshop Description

The United Nations' 2030 Agenda for Sustainable Development targets global science community on achieving Sustainable Development Goals (SDGs) for the future well-being of the planet. In accordance with SDGs, the IAP Strategic Plan (2016 – 2018) addresses health, water and food security as critical development challenges, which require scientific and technological progress.

There is growing scientific consensus that climate change is happening, and will have serious consequences for human health. One aspect of the ongoing discussion and exploration of climate change is the increased mortality threat of climate change on the planet's human population. As world population continues to grow along with change in global climate, a greater portion of humanity is threatened by a multitude of climate and weather phenomena. The near-term and medium-term is a time to promote adaptation measures that will reduce the damage to health caused by climate change, to which the world is already committed. The main goal is arising awareness of authorities, large and private households and the public about climate change issues, opportunities and ways of adaptation.

The growth of urban population has increasingly drawn the scientific community's attention to urban climate and the effects of urbanization at different scales. Due to the challenges of climate change, thermal comfort has been in the focus of urban planning. Future investigation and mitigation is necessary to find the efficient adaptation strategies of the urban surroundings and therefore to identify and choose preferable urban structures.

Climate change continually affects our capabilities to feed the increasing population. Agricultural production is extremely vulnerable to climate change impacts with serious potential consequences to society. Understanding how and to what extent climate change may affect agricultural productivity is of great significance for adapting to future climate change. The possible increases in extreme weather events caused by global warming, may pose an increasing risk to global crop production. Crop productivity may also be affected by other factors, such as the occurrence of pests and diseases, which are closely associated with climate change. Thus, the relative potential of adaptation strategies should be developed and evaluated for coping with climate risk.

To end poverty and hunger and make human life inclusive, safe, resilient and sustainable, it is essential to strengthen capacity for adaptation to climate change and mitigation management at all levels. Considering the present realities involving serious impact of extreme weather on environment, particularly on human health and agriculture, forecasts of future climate are required for effective decision-making, to provide social security and sustainable agriculture development, mitigating impacts or taking advantage of changed opportunities.

The AASSA-FEB RAS International Workshop aims to (1) strengthen research and innovation activities in the field of climate change impact on human health, agriculture production and social security, (2) cut across the different disciplines of science to present the best practices into key societal challenges including food and nutrition security, health and wellbeing, sustainable growth, (3) involve scientists and experts to collaborate with for the development of reliable as well as economically and environmentally sustainable approaches for adaptation to and mitigation of climate change, and (4) formulate resolution that may be submitted to concerned institutions/agencies both in Russia and abroad to provide high quality, evidence-based global science advice.

The themes of the International Workshop will include, but are not limited to, the following:

- Climate & Human Health (understanding the impact of climate change and design adaptation strategies)
- Future urbanization and climate change (evaluating how urbanization and global warming will act together)
- Ecological Responses to Climate Change
- Climate-resilience and environmental sustainability
- Changing world: agricultural potentials and ecosystem tradeoffs
- Sustainable Food Security (with a particular emphasis on better understanding the impact of climate change and designing adequate adaptation strategies)

Call for abstracts:

Researchers are invited to submit a 200-word abstract of their paper in English and one page CV of the senior or presenting author (MS Word, 11 points; refer to the attached sample author's abstract and write up) by e-mail to icarp.aassa2018@yahoo.com no later than **May 30, 2018**.

Researchers are invited to submit a 2000-word extended abstract after acceptance of their 200-word abstract no later than **June 30, 2018**.

After peer review, the authors whose abstracts are accepted will be notified by **10 June 2018**.

Important dates:

20 April 2018:	First Announcement
30 May 2018:	Abstract Submission Due
10 June 2018:	Notification of the Acceptance of the Abstracts
30 June 2018:	Full-abstract Submission and Registration Due

Tentative Program

01 October 2018, Monday

Arrivals (in Khabarovsk airport "Novy", transfer to Birobidzhan by car about 3 hours)
19.30 Dinner

02 October 2018, Tuesday / AASSA International Workshop

09.00-10.00 Opening and photo session
10.00-10.45 Keynote speech I
10.45-11.50 Coffee/tea break
11.15-12.45 Keynote speech II
13.00-14.30 Lunch Break
14.30-16.00 Panel I
16.00-16.30 Coffee/tea break
16.30-18.00 Panel II
19.30-21.00 International Workshop dinner

03 October 2018, Wednesday / AASSA International Workshop (Continued)



09:00-10:30 Panel III
10.30-11.00 Coffee/tea break
11.15-12.45 Panel IV
13.00-14.30 Lunch Break
14.30-16.00 Panel V
16.00-16.30 Coffee/tea break
16.30-18.00 Panel VI
19.30-21.00 International Workshop dinner

04 October 2018, Thursday

Field trip & departures (visit to Natural Reserve “Bastak”)

05 October 2018, Friday

Departures

Language:

English is the official language of the International Workshop. This language will be used for all the printed materials, presentations and discussions.

Venue:

Hotel “Bira”, Birobidzhan, Russian Federation

Institute for Complex Analysis of Regional Problems, Far Eastern Branch, Russian Academy of Sciences (ICARP FEB RAS) is founded to study the regions in different scale levels as an integrated system with interaction of natural, economic and social facets. A key competence is the ability to integrate interdisciplinary knowledge, different types of data from multiple thematic sources and services into a single analysis. The Institute conducts scientific, developmental and implemental researches in the spheres: mathematical modeling of natural and social-economic systems, biology, geography, climate and climate change, sustainable use of natural resources, environmental science, environmental monitoring, biodiversity conservation, social and economic development, rural demographics and development, migration.

Birobidzhan: Birobidzhan is a city and the administrative center of the Jewish Autonomous Region, Russian Federation, located on the Trans-Siberian Railway, close to the border with China. Population is 75,413 (2010). The chief economic activity is light industry, including textile and footwear. The city is full of Jewish history and culture. Its main street is named after the Yiddish language author and humorist Sholom Aleichem.

Weather:

During the beginning of October, the daily temperatures range from +0 to +15° Celsius. The days will be sunny.

Accommodation:

Hotel “Bira” will be arranged in Birobidzhan.



National Organizing Committee

Prof.Dr. Valentin Sergienko, RAS Academician, President of FEB RAS, Vice President of RAS
Prof. Dr. Yury Kulchin, Vice President, FEB RAS
Dr. Denis Fetisov, Director, ICARP FEB RAS
Prof. Dr. Efim Frisman, Scientific Director ICARP FEB RAS
Dr. Elena A. Grigorieva, Leading Researcher, ICARP FEB RAS
Ms. Marina Shtets, Head of FEB RAS International Department
Dr. Andrey V. Anoshkin, Chief Researcher, ICARP FEB RAS

International Advisory Committee

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Prof. Mooha Lee, Executive Director, AASSA
Prof., Dr. Boris Revich, Institute of Economic Forecasting RAS

CONTACT INFORMATION:

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AASSA-FEB RAS International Workshop on

“Climate change adaptation and mitigation: sustainable agriculture and health security”

**Birobidzhan, Russian Federation
01-05 October 2018**

REGISTRATION FORM

Please e-mail the complete the registration form, passport copy (1st page) and full abstract before
June 30, 2018 to E-mail: icarp.aassa2018@yahoo.com

PERSONAL INFORMATION

Title:	Prof. []	Dr. []	Mr. []	Mrs. []	Ms. []	Other [](Please Specify)	
First Name:							
Family Name:							
Organization:							
Department:							
Position:							
Address:							
Telephone:				Fax:			
Email:				Male []	Female []		

ACCOMPANYING PERSON* (IF ANY)

Title:	Prof. []	Dr. []	Mr. []	Mrs. []	Ms. []	Other [](Please Specify)
First Name:						
Family Name:						

FLIGHT DETAILS

Arrival

I will arrive at Airport in Khabarovsk

on from on
Date/Time City/Country Airline/Flight Number*

Departure

I will depart from Airport in Khabarovsk

on to on
Date/Time City/Country Airline/Flight Number*

Signature: _____ Date: _____

***Note: The local organizer will not assume responsibility for travel and local expenses of an accompanying person during the workshop.**

Sample Abstract (limited to 200 words)

Climate and human health: translational research for social security

Elena A. Grigorieva

Institute for Complex Analysis of Regional Problems Far Eastern Branch Russian Academy of Sciences (ICARP FEB RAS), Birobidzhan, Russia. Email: eagrigror@yandex.ru

Climate and weather affect human health and well-being during the extreme natural events, resulting in loss of human life during excessive cold and heat events, in extreme changes during transitional seasons. Negative health consequences (mortality and /or morbidity) are increasingly influenced by climatic change. The current study is focused on promoting our capability to recognize, identify and forecast the key climate risks for human well-being and vital activity. The methodology for assessment of interrelations in the system “Climate – Human health” includes multilevel estimation of bioclimatic patterns using territorial, systematic and multifaceted approaches. We claim: general assessment at macro-scale (for a vast area) provides the opportunity to transfer the results on meso-scale level (a small region), and to offer a detail estimation of climate and weather effect on human well-being at micro-scale level (a city). To show the effectiveness of the research scheme, a quantitative multilevel estimation of bioclimatic features for the Russian Far East is fulfilled. The regions and periods during the year thermally most uncomfortable and hazardous are identified. The results are valuable for warning decision makers, for the development of proper intervention procedures in health control, to minimize population loss and to guarantee social security.

Keywords (Keywords up to 5 words): climate, extreme events, human health, Russian Far East

Short CV (maximum 1 page)

Elena A. Grigorieva



Leading Researcher, Institute for Complex Analysis of Regional
Problems

Far Eastern Branch Russian Academy of Sciences (ICARP FEB RAS)

eagrigor@yandex.ru

Education

- 2003 PhD., Environmental Science, Far-Eastern Federal University, Vladivostok, Russia
- 1987 Specialist (Hons) (Meteorology), Leningrad State Hydrometeorological Institute (now Russian State Hydrometeorological University), St.-Petersburg, Russia

Major Activities

- 2013 - Present Leading Researcher, ICARP FEB RAS, Birobidzhan, Russian Federation
- 2002 - 2013 Scientific Secretary, ICARP FEB RAS, Birobidzhan, Russian Federation
- 1995 - 2002 Researcher, Senior Researcher, Laboratory of Regional Geoecology, ICARP FEB RAS, Birobidzhan, Russian Federation
- 2017 - 2019 Member of AASSA Women in Science and Engineering Committee
- 2014 - Present Vice-President, International Society of Biometeorology
- 2005 - Present Member, International Society of Biometeorology
- 2014 - Present Member, American Meteorological Society
- 2008 - Present Member, Russian Geographical Society
- 2011 Member, European Geosciences Union
- 2002 - Present Editorial Board Member of the Scientific Journal "Regional Problems": Scientific Secretary (2002 – 2013), Editorial Board Member (2013 – present)
- 1999 - 2011 Associate Professor (Environmental Science) in Priamursky State University, Birobidzhan, Russian Federation

Honors and Awards

- 2012 - 2014 CRDF Global (Civilian Research and Development Foundation) – FEB RAS, "A climate assessment of the Russian Far East for the purpose of developing Weather Health Warning System"
- 2011 DAAD, Meteorological Institute, Albert-Ludwigs-University of Freiburg, Germany
- 2012 Fulbright Visiting Scholar Program, University of Miami, Department of Geography and Regional Studies

Research Interests

Climate and Agriculture, Climate and human health, Human bioclimatic indices, Human thermal acclimatization, Acclimatization in extreme climates, Climate and tourism