



**Conference program**

**Social science knowledge  
and sustainable agricultural development  
along the Silk Road**

**30 October - 1 November 2018**

**Tashkent Institute of Irrigation  
and Agricultural Mechanization Engineers (TIAME)**

**Tashkent, Uzbekistan**

# Practical information

## Conference venue

Tashkent Institute of Irrigation and Agricultural Mechanization Engineers (TIAME)  
Kori Niyoziy str. 39, Tashkent

## Registration of participants

Registrations of the conference participants will take place at the main rectorate building of TIAME each conference day between 8-00 and 9-00.

## Conference rooms

The plenary and panel discussion sessions, sessions with “A”, as well as opening and closing sessions will take place in Conference Hall.

Sessions with “B” will take place in the Video conference hall.

## Simultaneous translation

All plenary sessions and the sessions with “A” will be covered with English-Russian simultaneous translation. Please return the headphones after each session.

## Information desk

If you have questions please consult with the information desk.

## Lunch breaks and welcome dinner

All lunch breaks and the welcome dinner will take place in the TIAME Canteen.

## Contact

Email: [agriknowledge2018@gmail.com](mailto:agriknowledge2018@gmail.com)

# Tuesday, 30 October 2018

08:00 - 09:00	Registration	
09:00 - 09:30	<b>Conference opening</b> Uktam Umurzakov (TIIAME, Uzbekistan) Azim Nazarov (Ministry of Innovational Development, Uzbekistan) Martin Petrick (Justus Liebig University Giessen and IAMO, Germany) Günter Overfeld (Ambassador of Germany to Uzbekistan)	
09:30 - 11:30	<b>Plenary 1: Social science contributions to the Central Asian reform agenda</b> <i>Session Chair: Nozilakhon Mukhamedova (IAMO, Germany)</i>  What agricultural economists can contribute and how Martin Petrick (Justus Liebig University Giessen and IAMO, Germany)  The Central Asian economies in the twenty-first century Richard Pomfret (University of Adelaide, Australia)  Linking research and practice in water sector: An innovative approach Iskandar Abdullaev (CAREC, Kazakhstan)	
11:30 - 12:00	Coffee break	
12:00 - 13:30	<b>1A: Collective action</b> <i>Session Chair: Iroda Amirova</i>  Determinants of farmers' cooperation in irrigation and crop production: The case of irrigated areas in Kazakhstan and Uzbekistan Abdusame Tadjiev, Golib Sanaev (Samarkand Veterinary Medicine Institute, Uzbekistan), Nodir Djanibekov (Leibniz Institute of Agricultural Development in Transition Economies (IAMO), Germany), Martin Petrick (Justus Liebig University Giessen and IAMO, Germany)  Collective decision-making in times of catastrophic events Zafar Kurbanov (Westminster International University in Tashkent (WIUT), Uzbekistan)  Investment traps in collective water governance: Theory and experimental evidence from Central Asia Iroda Amirova (Leibniz Institute of Agricultural Development in Transition Economies (IAMO), Germany), Martin Petrick (Justus Liebig University Giessen and IAMO, Germany), Nodir Djanibekov (IAMO, Germany)	<b>1B: Rural interdependencies and off-farm employment</b> <i>Session Chair: Golib Sanaev</i>  Rural non-farm employment in Samarkand region Shavkat Hasanov, Golib Sanaev (Samarkand Veterinary Medicine Institute, Uzbekistan)  Economic analysis of afforestation of marginal farmlands in Uzbekistan: Revealing the role of interlinkages between farms and households Utkur Djanibekov (Landcare Research Institute, New Zealand)  Determinants of household participation in farm and nonfarm jobs: Evidence from rural Kazakhstan and Uzbekistan Golib Sanaev (Samarkand Veterinary Medicine Institute, Uzbekistan), Nodir Djanibekov (Leibniz Institute of Agricultural Development in Transition Economies (IAMO), Germany), Martin Petrick (Justus Liebig University Giessen and IAMO, Germany)
13:30 - 14:30	Lunch	

# Tuesday, 30 October 2018

<p><b>14:30 - 16:00</b></p>	<p><b>2A: Food value chains</b>  <i>Session Chair: Lorena Lombardozi</i></p> <p>Recent structural changes in food value chains in Uzbekistan  <u>Inna Rudenko</u> (Urgench State University, KRASS, Uzbekistan), Davron Niyazmetov (KRASS, Uzbekistan), Botir Dosov (Freelancer, Uzbekistan)</p> <p>Assessing the impacts of climate change on agricultural production and food markets: A structural econometric framework            Iddo Kan, <u>Ayal Kimhi</u>, Ami Reznik, Jonathan Kaminski (Hebrew University of Jerusalem, Israel)</p> <p>Unpacking state-led upgrading: Empirical evidence from the Uzbek horticultural sector  <u>Lorena Lombardozi</u> (Open University, UK)</p>	<p><b>2B: Livestock development</b>  <i>Session Chair: Brett Hankerson</i></p> <p>Livestock and poverty and climate change: Evidence from panel data for Kyrgyzstan  <u>Kadyrbek Sultakeev</u> (Kyrgyz Turkish Manas University, Kyrgyzstan)</p> <p>Role of agricultural services to increase efficiency in livestock production in Uzbekistan  <u>Akmal Abbruev</u> (Samarkand Veterinary Medicine Institute, Uzbekistan)</p> <p>Grazing patterns are a key determinant of fire occurrence in Kazakhstan  <u>Brett Hankerson</u>, Florian Schierhorn, Daniel Müller (Leibniz Institute of Agricultural Development in Transition Economies (IAMO), Germany)</p>
<p>16:00 - 16:30</p>	<p>Coffee break</p>	
<p><b>16:30 - 18:30</b></p>	<p><b>3A: Agricultural development patterns in Central Asia I (in Russian)</b>  <i>Session Chair: Saule Yessengaziyeva</i></p> <p>Agriculture in Tajikistan: Transiting from unsustainable to sustainable development  <u>Khodiamakhmad Umarov</u> (Tajik National University, Tajikistan)</p> <p>Development of the livestock sector of Turkmenistan in the post-Soviet period  <u>Stanislav Aganov</u>, Yolbars Kepbanov, Gurbanmyrat Ovezmyradov (Tebigy Kuwwat Social Unit Enterprise, Turkmenistan)</p> <p>Development of cooperatives in Uzbekistan and their recent transformation  <u>Olim Murtazaev</u> (Samarkand Veterinary Medicine Institute, Uzbekistan)</p> <p>Issues of innovations development in agriculture of Kazakhstan  <u>Saule Yessengaziyeva</u> (Kazakh National Agrarian University (KazNAU), Kazakhstan)</p>	<p><b>3B: Diversification and employment</b>  <i>Session Chair: Abdurazak Khujabekov</i></p> <p>The drivers of diversification in irrigated farming systems of Uzbekistan and Kazakhstan  <u>Nozilakhon Mukhamedova</u> (Leibniz Institute of Agricultural Development in Transition Economies (IAMO), Germany), Martin Petrick (Justus Liebig University Giessen and IAMO, Germany)</p> <p>Career expectations of students at agricultural universities in Uzbekistan  <u>Ibrohim Ganiev</u>, Golib Sanaev, Husniddin Pardaev (Samarkand Veterinary Medicine Institute, Uzbekistan)</p> <p>Language skills and household food consumption: Evidence from Central Asia            Kamiljon Akramov (International Food Policy Research Institute (IFPRI), USA), <u>Akhtem Useinov</u> (Westminster International University in Tashkent (WIUT), Uzbekistan)</p> <p>Uzbekistan's horticultural sector  <u>Abdurazak Khujabekov</u> (Scientific Research Institute of the Economy of Agriculture, Uzbekistan)</p>
<p>18:30 - 20:30</p>	<p>Welcome dinner</p>	

# Wednesday, 31 October 2018

08:00 - 09:00	Registration	
09:00 - 10:00	<p><b>Plenary 2: Higher education and knowledge for agricultural innovations in Central Asia</b>  <i>Session Chair: Stefanos Xenarios (Nazarbayev University, Kazakhstan)</i></p> <p>Experience of ISET as a reform model for higher education in the post-Soviet space  Phatima Mamardashvili (International School of Economics at Tbilisi State University (ISET), Georgia)</p> <p>Quantitative policy research for evidence-based policy making  Kamiljon Akramov (International Food Policy Research Institute (IFPRI), USA)</p>	
10:00 – 11:00	Coffee break Transfer to the International Press Club	
11:30 - 13:00	<p><b>Panel discussion “The Graduate School and role of social science knowledge in sustainable agricultural development”</b>  <i>Venue: International Press Club</i>  <i>Moderators: Nozimakhon Davletova (University of World Economy and Diplomacy, Uzbekistan) &amp; Gulomjon Samatov (International Press Club, Uzbekistan)</i>  <a href="#">Link</a> to broadcasted version on Uzbekistan TV (in Uzbek)</p> <p>Kamiljon Akramov (International Food Policy Research Institute (IFPRI), USA)  Phatima Mamardashvili (ISET, Georgia)  Azim Nazarov (Ministry of Innovational Development, Uzbekistan)  Martin Petrick (Justus Liebig University Giessen and IAMO, Germany)  Uktam Umurzakov (TIAME, Uzbekistan)  Jean-Louis Veaux (Delegation of the European Union to the Republic of Uzbekistan)</p>	
13:30 - 14:30	Lunch	
14:30 - 16:30	<p><b>4A: Education, research and development</b>  <i>Session Chair: Nargiza Alimukhamedova</i></p> <p>Research and development reform: The case of Kazakhstan and Uzbekistan  <u>Bakhrom Mirkasimov</u>, Alisher Suyunov, Komiljon Karimov (Westminster International University in Tashkent (WIUT), Uzbekistan)</p> <p>Lab of Negotiations: Promoting water diplomacy in Central Asia  <u>Nozima Davletova</u> (University of World Economy and Diplomacy, Uzbekistan)</p> <p>Educational innovations in Central Asia: The case of Graduate School of Public Policy in Nazarbayev University  <u>Stefanos Xenarios</u> (Nazarbayev University, Kazakhstan)</p> <p>On measures for improving the quality of academic research and student-oriented teaching in Uzbekistan  <u>Nargiza Alimukhamedova</u>, <u>Iroda Komilova</u> (Westminster International University in Tashkent (WIUT), Uzbekistan)</p>	<p><b>4B: Water and agrarian transformations</b>  <i>Session Chair: Ahmad Hamidov</i></p> <p>Economic incentives to support water savings and water productivity improvement: Case-studies from EU Project area in Uzbekistan  <u>Oytire Anarbekov</u>, Narbay Gaipnazarov, Umida Solieva (International Water Management Institute (IWMI) Regional Office for Central Asia, Uzbekistan)</p> <p>Hydropolitics, international development and hydrosocial transformations in Central Asia  <u>Andrea Zinzani</u> (University of Bologna, Italy, University of Manchester, UK)</p> <p>transdisciplinary research on institutions guided by the social-ecological-technical systems: Example of drainage management in Uzbekistan  <u>Ahmad Hamidov</u> (Leibniz Centre for Agricultural Landscape Research (ZALF), Humboldt University of Berlin, Germany)</p>
16:30 - 17:00	Coffee break	

# Wednesday, 31 October 2018

<p><b>17:00 - 18:30</b></p>	<p><b>5A: Climate change and resilience</b>  <i>Session Chair: Lena Kuhn</i></p> <p>Archetypical barriers to climate change adaptation and climate-sensitive land and forest management in Central Asia: Insights from an experimental study  <u>Ulan Kasymov</u>, Xiaoxi Wang, Dimitrios Zikos, Massih Chopan (Humboldt University of Berlin, Germany), Benedikt Ibelle (Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ), Germany)</p> <p>Factors effecting on productivity and efficiency in CIS countries  <u>Ihtiyor Bobojonov</u>, Alisher Tleubayev, Thomas Glauen (Leibniz Institute of Agricultural Development in Transition Economies (IAMO), Germany)</p> <p>Enhancing climate resilience in Central Asia via index-based drought insurance  <u>Lena Kuhn</u>, Ihtiyor Bobojonov (Leibniz Institute of Agricultural Development in Transition Economies (IAMO), Germany)</p>	<p><b>5B: Organized Session: Gender &amp; food security</b>  <i>Session Chair: Kamiljon Akramov</i></p> <p>Child malnutrition in Kyrgyzstan and Tajikistan  <u>Khilola Ruziboeva</u> (Westminster International University in Tashkent (WIUT), Uzbekistan)</p> <p>Women empowerment, household food security, and nutritional balance: Empirical evidence from Tajikistan  <u>Bekhzod Egamberdiev</u>, Salim Turdaliev (Westminster International University in Tashkent (WIUT), Uzbekistan)</p> <p>Women’s empowerment and infant complementary feeding in Central Asia  <u>Dilnovoz Abdurazzakova</u>, Ziyodullo Parpiev (Westminster International University in Tashkent (WIUT), Uzbekistan)</p>
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# Thursday, 1 November 2018

08:00 - 09:00	Registration	
09:00 - 11:00	<p><b>Plenary 3: Disciplinary perspectives on the role of knowledge in agricultural development</b>  <i>Session Chair: Jenniver Sehring (IHE Delft Institute for Water Education, The Netherlands)</i></p> <p>Opportunities and challenges of evidence-based policy advice  Thomas Herzfeld (Leibniz Institute of Agricultural Development in Transition Economies (IAMO), Germany)</p> <p>Social science knowledge, politics and decision-making for sustainable water management in Central Asia  Jenniver Sehring (IHE Delft Institute for Water Education, The Netherlands)</p> <p>Evolution of research topics and research networks on agricultural development in Central Asia  Nodir Djanibekov (IAMO, Germany)</p>	
11:00 - 11:30	Coffee break	
11:30 - 13:30	<p><b>6A: Agricultural development patterns in Central Asia II (in Russian)</b>  <i>Session Chair: Gulnar Bekenova</i></p> <p>Effectiveness of concentration of agricultural production in large producers in Kazakhstan  <u>Ukilyay Kerimova</u> (Kazakh National Agrarian University (KazNAU), Kazakhstan)</p> <p>Pricing policy of agricultural products marketing system  <u>Bekzod Djurayev</u> (Scientific Research Institute of the Economy of Agriculture, Uzbekistan)</p> <p>Forecasting with economic-mathematical model the costs of greenhouse vegetables  <u>Akmal Durmanov</u>, Azamjon Tulaboev (Tashkent Institute of Irrigation and Agricultural Mechanization Engineers (TIAME), Uzbekistan)</p> <p>Dynamics of agricultural land use in Kazakhstan  <u>Gulnar Bekenova</u> (Kazakh National Agrarian University (KazNAU), Kazakhstan)</p>	<p><b>6B: Organized Session: Research-based methods in enhancing water resource management</b>  <i>Session Chair: Shakhboz Akhmedov</i></p> <p>CAREC's Innovation Idea Lab for Smart Water Solutions  <u>Jusipbek Kazbekov</u> (Regional Environmental Centre for Central Asia CAREC, Uzbekistan)</p> <p>Modelling water-related ecosystem services for improved local-level land and water management  <u>Ekaterina Strikeleva</u>, Anna Inozemtseva (CAREC, Kazakhstan)</p> <p>Modelling of water flow variations under climate change scenarios for small transboundary watersheds in Central Asia.  <u>Zhanna Babagalieva</u> (CAREC, Kazakhstan)</p> <p>Climate change impact on water quality in the Amu Darya basin  <u>Atabek Umirbekov</u> (CAREC, Uzbekistan)</p> <p>Research Based Water Diplomacy in Action: High-Level Dialogue Platform, Blue Peace for Central Asia  <u>Shakhboz Akhmedov</u> (CAREC, Kazakhstan)</p>
13:30 - 14:30	Lunch	

# Thursday, 1 November 2018

<p>14:30 - 16:00</p>	<p><b>7A: Organized Session: Revitalising animal husbandry in Central Asia</b> <i>Session Chair: Nozilakhon Mukhamedova</i></p> <p>ANICANET project <u>Nozilakhon Mukhamedova</u> (IAMO, Germany)</p> <p>Livestock producers in Kyrgyzstan <u>Baimat Niiazaliev</u> (University of Central Asia, Kyrgyzstan)</p> <p>Livestock producers in Uzbekistan <u>Abdurazak Khujabekov</u> (Scientific Research Institute of the Economy of Agriculture, Uzbekistan), <u>Golib Sanaev</u> (Samarkand Veterinary Medicine Institute, Uzbekistan)</p> <p>Livestock producers in Kazakhstan <u>Janil Bozayeva</u>, <u>Dauren Oshakbaev</u> (Center for applied research Talap, Kazakhstan)</p>	<p><b>7B: Marketing channels</b> <i>Session Chair: Aziz Rasulov</i></p> <p>Development of measures to improve governance of processing industries agriculture of South Kazakhstan region <u>Inkar Saudambekova</u> (Narxoz, Kazakhstan)</p> <p>New approaches to valuation of natural resources in agriculture of Uzbekistan <u>Farhod Ahrorov</u> (Samarkand Veterinary Medicine Institute, Uzbekistan)</p> <p>The effects of local bazaars on marketing of organic products: The case of Uzbekistan <u>Aziz Rasulov</u> (Fairtrade Network of Asia &amp; Pacific Producers, Uzbekistan)</p>
<p>16:00 - 16:30</p>	<p>Coffee break</p>	
<p>16:30 - 18:00</p>	<p><b>8A: Interdisciplinary water-related research (in Russian)</b> <i>Session Chair: Dinara Ziganschina</i></p> <p>South Karakalpakstan Water Management Improvement Project <u>Sergey Kim</u> (Nazar Business and Technology (NBT), Uzbekistan)</p> <p>Rational use of water resources in Uzbekistan based on scientific and technical progress <u>Hosiyat Bahretdinova</u> (Tashkent Institute of Irrigation and Agricultural Mechanization Engineers (TIIAME), Uzbekistan)</p> <p>Impact of climate change and water salinization on fisheries sector in downstream of Amudarya river: Strategies for future development <u>Bakhtiyor Karimov</u> (TIIAME, Uzbekistan), <u>Uwe Waller</u> (University of Applied Sciences, Saarbruecken, Germany), <u>Michael Matthies</u> (University of Osnabrueck, Germany)</p> <p>Transboundary water research in Central Asia: Achievements, challenges and prospects for the future <u>Dinara Ziganschina</u> (Scientific-Information Center, ICWC, Uzbekistan)</p>	<p><b>8B: Land resources and farm performance</b> <i>Session Chair: Farhod Kurbonov</i></p> <p>Agricultural land market activity in Kazakhstan: Current situation <u>Gulsim Aitkhozhayeva</u> (Kazakh National Agrarian University (KazNAU), Kazakhstan)</p> <p>Access to agricultural services and impact on farm performance in Samarkand region <u>Gayrat Ibragimov</u> (Samarkand Veterinary Medicine Institute, Uzbekistan)</p> <p>JICA operation in Uzbekistan: Projects implemented in agricultural sector <u>Farhod Kurbonov</u> (Japan International Cooperation Agency (JICA) Representative office in Uzbekistan)</p>
<p>18:00 - 19:00</p>	<p><b>Closing session</b></p>	



# Poster sessions

## October 30, 11:30 - 12:00

### Poster Session A

Development of postgraduate education and quality of research

Olima Otakhanova (Tashkent Institute of Irrigation and Agricultural Mechanization Engineers (TIAME), Uzbekistan)

Development of organizational and economic benefits of financial services in agriculture

Jonibek Rustamov (Tashkent State Agrarian University, Uzbekistan)

Prospects for introduction of innovative technologies into agriculture of Uzbekistan

Zulfiya Kannazarova (Tashkent Institute of Irrigation and Agricultural Mechanization Engineers (TIAME), Uzbekistan)

Important links to innovative failure in agriculture

Aziza Maksumhanova, Guzal Mirzanova (Tashkent Institute of Irrigation and Agricultural Mechanization Engineers (TIAME), Uzbekistan)

## October 31, 11:00 - 11:30

### Poster Session B

Factors of increasing the effectiveness of horticulture

Maksumhanova A., Guza Mirzanova (Tashkent Institute of Irrigation and Agricultural Mechanization Engineers (TIAME), Uzbekistan)

Foreign experiment of intergration and cooperation in agriculture

Sherzod Murodov (Tashkent Institute of Irrigation and Agricultural Mechanization Engineers (TIAME), Uzbekistan)

Post-harvest losses of fruit and vegetables in value chain

Sirojiddin Eshmatov (Tashkent Institute of Irrigation and Agricultural Mechanization Engineers (TIAME), Uzbekistan)

From glaciers to the Aral Sea

Marina Gonzalez, Almas Kitapbayev, Lubov Shakirzhanova, Botagoz Sharipova, Ekaterina Alexandrovskaya (German-Kazakh University (DKU), Kazakhstan)

## November 1, 11:00 - 11:30

### Poster Session C

Government support mechanisms for improving the efficiency of fishery in Uzbekistan

Iskandar Yunusov (Tashkent Institute of Irrigation and Agricultural Mechanization Engineers (TIAME), Uzbekistan)

Efficiency of development of fish industry in Uzbekistan

Indira Smanova (Tashkent Institute of Irrigation and Agricultural Mechanization Engineers (TIAME), Uzbekistan)

Governmental support of beekeeping in the food security system

Umida Sangirova (Tashkent Institute of Irrigation and Agricultural Mechanization Engineers (TIAME), Uzbekistan)

The role of public-private partnership in the formation of national innovation systems in agro-industrial complex

Davron Rustamov (The Academy of Public Administration under the President of the Republic of Uzbekistan)

## **Financial support**

The organizers gratefully acknowledge financial support by the Volkswagen Foundation, the Ministry of Higher and Secondary Specialized Education of the Republic of Uzbekistan, The Ministry of Innovational Development of the Republic of Uzbekistan, and the Tashkent Institute of Irrigation and Agricultural Mechanization Engineers (TIAME).

## **Contacts**

Shavkat Hasanov

Samarkand Veterinary Medicine Institute (SamVMI)

Tashkent Institute of Irrigation and Agricultural Mechanization Engineers (TIAME)

[agriknowledge2018@gmail.com](mailto:agriknowledge2018@gmail.com)

Nodir Djanibekov

Leibniz Institute of Agricultural Development in Transition Economies (IAMO)

[djanibekov@iamo.de](mailto:djanibekov@iamo.de)