

## International Summer School

### Sustainability Assessment of the Water–Energy–Food Nexus for Irrigated Agriculture: Interdisciplinary Approaches for Central Asia (WEFCA)

**Date:** 29 April – 5 May 2019

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

Tentative programme:

<u>Time</u>	<u>Topic</u>
<b>29 April 2019</b>	
9:00-9:30	<b>Welcome, introduction round and setting the scene: water, energy, food (WEF) and sustainable development</b>
9:30-10:15	WEF nexus – concepts and cases
10:15-11:00	Land use and water management in Central Asia
11:00-11:15	<i>Tea and coffee break</i>
11:15-12:00	Sustainable development and SDGs
12:00-12:45	Water saving irrigation technologies: Theory and practice
12:45-14:00	<i>Lunch at TIAME cafeteria</i>
14:00-15:30	Elevator Pitch I: each student presents research project. 1-2 slides, 5 min max.
15:30-15:45	<i>Tea and coffee break</i>
15:45-17:30	Elevator Pitch II: each student presents research project. 1-2 slides, 5 min max.
18:00-20:00	<i>Welcome dinner for all participants</i>
<b>30 April 2019</b>	
9:00-10:00	<b>Institutional and resource economics (Keynote speaker)</b>
10:00-10:45	Access to natural resources: the design of sufficient property rights
10:45-11:00	<i>Tea and coffee break</i>
11:00-11:45	Governance of social-ecological systems: Application of QCA to empirical social science research
11:45-12:30	WEF nexus in a transboundary dimension
12:30-14:00	<i>Lunch at TIAME cafeteria</i>
14:00-15:30	Install student working groups; develop research design (problem statement and formulate research objective)
15:30-16:00	<i>Tea and coffee break</i>
16:00-18:00	Tashkent city tour

<b>1 May 2019</b>	
9:00-10:00	<b>Energy management in Central Asia (Keynote speaker)</b>
10:00-10:45	Overview to system and modelling analysis
10:45-11:00	<i>Tea and coffee break</i>
11:00-11:45	DPSIR and assessment tools
11:45-12:30	Participatory sustainability assessment
12:30-14:00	<i>Lunch at TIAME cafeteria</i>
14:00-15:30	Group work: Detail design of data collection method (questionnaire, survey, experiments)
15:30-16:00	<i>Tea and coffee break</i>
16:00-18:00	Group work: Detail design of data collection method (questionnaire, survey, experiments)
<b>2 May 2019</b>	
8:30-9:30	<b>Field trip to Tashkent province</b>
9:30-11:00	Visit Pump Station: Introduction, questions and answers
11:00-11:30	<i>Tea and coffee break</i>
11:30-13:00	Visit Water Controlling Structure: Introduction, questions and answers
13:00-14:00	<i>Lunch</i>
14:00-16:00	Visit agricultural fields: Introduction, questions and answers
16:00-17:00	<i>Travel back to Tashkent</i>
<b>3 May 2019</b>	
9:00-10:00	<b>Biological remediation measures (Keynote speaker)</b>
10:00-10:45	Soil and plant biotechnology
10:45-11:00	<i>Tea and coffee break</i>
11:00-11:45	Sustainable soil management: Key to food security
11:45-12:30	TIAME Campus Tour (visit scientific laboratories)
12:30-14:00	<i>Lunch at TIAME cafeteria</i>
14:00-15:30	Group work: Transcribe interviews and data analysis
15:30-16:00	<i>Tea and coffee break</i>
16:00-18:00	Group work: Transcribe interviews and data analysis
<b>4 May 2019</b>	
9:00-10:00	<b>WEF and environmental nexus: An example from the lift irrigated areas of Central Asia (Keynote speaker)</b>
10:00-10:45	WEF and ecosystems nexus in Syrdarya river basin
10:45-11:00	<i>Tea and coffee break</i>
11:00-11:45	Salinity management

11:45-12:30	Climate and energy management
12:30-14:00	<i>Lunch at TIAME cafeteria</i>
14:00-15:30	Group work: Final consultation with senior lecturers and preparation of group presentation
15:30-16:00	<i>Tea and coffee break</i>
16:00-18:00	Group work: Final consultation with senior lecturers and preparation group presentation
<b>5 May 2019</b>	
9:00-10:30	Group presentation (15 min presentation + 15 discussion)
10:30-11:00	<i>Tea and coffee break</i>
11:00-12:30	Group presentation (15 min presentation + 15 discussion)
12:30-14:00	<i>Lunch at TIAME cafeteria</i>
14:00-15:30	Group presentation (15 min presentation + 15 discussion)
15:30-16:00	<i>Tea and coffee break</i>
16:00-18:00	Closing ceremony: Final remarks and award certificate of participation