

Programme – 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)

<u>Time</u>	<u>Topic</u>	<u>Lecturer</u>
DAY 1 (29 April 2019) – Moderation by Prof. Helming		
8:00	Registration	Sebastian Ristau
9:00-9:30	Welcome, introduction round and setting the scene: water, energy, food (WEF) and sustainable development	Prof. Uktam Umurzakov – Rector of TIAME Prof. Inomjon Majidov – Minister of Higher and Secondary Special Education Dr. Shavkat Khamraev – Minister of Water Resources Prof. Katharina Helming – ZALF
9:30-10:15	Multifunctional land use, sustainable development & SDGs	Prof. Katharina Helming
10:15-10:45	<i>Tea and coffee break</i>	
10:45-11:30	WEF nexus – concepts and cases	Dr. Ahmad Hamidov
11:30-12:15	Land use and water management in Central Asia	Prof. Abdulkhakim Salokhiddinov
12:15-13:00	Water saving irrigation technologies	Dr. Heidi Webber
13:00-14:00	<i>Lunch at TIAME cafeteria</i>	
14:00-14:15	Introduction to group work	Dr. Ahmad Hamidov
14:15-15:45	Elevator Pitch I: Each student presents research study	all
15:45-16:15	<i>Tea and coffee break</i>	
16:15-18:00	Elevator Pitch II: Each student presents research study	all
18:00-20:00	<i>Welcome dinner for all participants</i>	
DAY 2 (30 April 2019) – Moderation by Dr. Webber		
9:00-10:00	Institutional and resource economics	Keynote speaker (Dr. Katrin Daedlow)
10:00-10:45	Discourses, scarcity, and science-policy nexus	Dr. Hussam Hussein
10:45-11:15	<i>Tea and coffee break</i>	
11:15-12:00	Systematic review analysis	Dr. Ahmad Hamidov
12:00-12:45	WEF nexus in a transboundary dimension	Dr. Hussam Hussein

12:45-13:45	<i>Lunch at TIAME cafeteria</i>	
13:45-15:15	Group work: Install student working groups	all
15:15-15:30	<i>Tea and coffee break</i>	
15:30-18:00	Tashkent city tour	
18:00-20:00	<i>Joint dinner with all participants</i>	
DAY 3 (1 May 2019) – Moderation by Dr. Hussein		
9:00-10:00	Energy management in Central Asia	Keynote speaker (Dr. Obid Tursunov)
10:00-10:45	Agricultural systems modelling and analysis	Dr. Heidi Webber
10:45-11:15	<i>Tea and coffee break</i>	
11:15-12:00	Access to natural resources: the design of sufficient property rights	Dr. Katrin Daedlow
12:00-12:45	Sustainability assessment methods	Prof. Katharina Helming
12:45-14:00	<i>Lunch at TIAME cafeteria</i>	
14:00-15:30	Group work: Develop research design	all
15:30-16:00	<i>Tea and coffee break</i>	
16:00-18:00	Group work: Identify impact assessment parameters	all
18:00-20:00	<i>Joint dinner with all participants</i>	
DAY 4 (2 May 2019)		
8:30-9:00	Field trip to Tashkent province	
9:00-9:40	Visit Pump Station in Kibray district: Introduction, questions and answers	
9:40-10:40	Travel to Chirchik district	
10:40-11:20	Visit Yukori Chirchik Water Distribution Facility: Introduction, questions and answers	
11:20-11:50	<i>Tea and coffee break</i>	
11:50-12:30	Visit Tashkent Water Reservoir: Introduction, questions and answers	
12:30-13:00	Visit Tuyabuguz Hydropower Station: Introduction, questions and answers	
13:00-14:30	<i>Lunch</i>	
14:30-15:30	Visit agricultural fields: Orchard farms with water saving irrigation technology practices	
15:30-16:30	<i>Travel back to Tashkent</i>	
16:30-18:30	<i>Sport activities at TIAME recreation center</i>	
19:00-20:30	<i>Joint dinner with all participants</i>	
DAY 5 (3 May 2019) – Moderation by Dr. Daedlow		
9:00-10:00	Biological remediation measures	Keynote speaker (Dr. Dilfuza Egamberdieva)

10:00-10:45	Phytoremediation: the technique for salinity control	Dr. Gulom Bekmirzaev
10:45-11:15	<i>Tea and coffee break</i>	
11:15-12:00	Multiple methods application in interdisciplinary research	Dr. Ahmad Hamidov
12:00-13:00	TIAME Campus Tour (visit scientific laboratories)	TIAME administration
13:00-14:00	<i>Lunch at TIAME cafeteria</i>	
14:00-15:30	Group work: Develop management scenarios	all
15:30-16:00	<i>Tea and coffee break</i>	
16:00-18:00	Group work: Develop management scenarios	all
18:00-20:00	<i>Joint dinner with all participants</i>	
DAY 6 (4 May 2019) – Moderation by Dr. Egamberdieva		
9:00-10:00	WEF and environmental nexus: An example from the lift irrigated areas of Central Asia	Keynote speaker (Kakhramon Djumaboev)
10:00-10:45	WEF and ecosystems nexus in Syrdarya river basin	Prof. Yarash Pulatov
10:45-11:15	<i>Tea and coffee break</i>	
11:15-12:00	Salinity management	Prof. Mukhamadkhan Khamidov
12:00-12:45	Climate, water, and renewable energy in Central Asia	Zafar Gafurov
12:45-14:00	<i>Lunch at TIAME cafeteria</i>	
14:00-15:30	Group work: Conduct impact assessment	all
15:30-16:00	<i>Tea and coffee break</i>	
16:00-17:00	Group work: Conduct impact assessment	all
17:00-18:00	Group work: Final consultation with senior lecturers and preparation of group presentation	
18:00-20:00	<i>Joint dinner with all participants</i>	
DAY 7 (5 May 2019) – Moderation by Dr. Hamidov		
9:00-10:30	Group presentation (15 min presentation + 15 discussion)	all
10:30-11:00	<i>Tea and coffee break</i>	
11:00-12:30	Group presentation (15 min presentation + 15 discussion)	all
12:30-14:00	<i>Lunch at TIAME cafeteria</i>	
14:00-15:00	Closing ceremony: Final remarks and award certificate of participation	Prof. Tohir Sultanov – Vice rector of TIAME Prof. Katharina Helming
15:00-18:00	Free time	all
18:00-20:00	<i>Farewell dinner with all participants</i>	