

**7th International Scientific Conference on Water „7th ISCW 2024”
20-21 June 2024, Szarvas, Hungary**



Hungarian University of Agriculture and
Life Sciences
Institute of Environmental Sciences,
Research Center for Irrigation and Water
Management and
Research Center for Fisheries and
Aquaculture
Hungary



University of Life Sciences
"King Michael I" from Timisoara
Faculty of Agriculture and
Faculty of Management and Rural Tourism
Romania



**POLITECHNIKA
BYDGOSKA**
im. Jana i Jędrzeja Śniadeckich

Bydgoszcz University of Science and
Technology
Faculty of Agriculture and Biotechnology
Poland



University of Novi Sad
Faculty of Agriculture
Serbia

PROGRAM OF THE CONFERENCE

7th International Scientific Conference on Water „7th ISCW 2024”

20-21 June 2024, Szarvas, Hungary

20th June 2024. Thursday

Venue: Directorate of Körös-Maros National Park- 5540 Szarvas, Anna-liget 1.

Time zone: UTC+2 / Central European Summer Time (CEST)

9.00 – 10.00 Registration

Moderator: Mihály Jancsó, (MATE)

Opening Ceremony

10.00 – 10.30 **Opening ceremony of the conference**

Plenary session:

10.30 – 11.00: **PROF. DR. ATILA BEZDAN:** IMPACT OF CLIMATE CHANGE ON EXTREME PRECIPITATION AND RISK OF PLUVIAL FLOODING IN THE BANAT REGION IN SERBIA

Associate professor and Head of the Department of Water Management at the Faculty of Agriculture, University of Novi Sad, Serbia

11.00 – 11.30: **PROF. EMERITUS DR. TEODOR EUGEN MAN:** IRRIGATION - PAST, PRESENT AND FUTURE IN ROMANIA AND WORLD. Case study: Numerical modeling MIKE+ RIVERS (MIKE 11) program for calculating the volume of water available from drainage to irrigation
Professor, PhD coordinator at the Faculty of Civil Engineer, University of Polytechnic Timisoara, Correspondent Member of Academy of Agricultural and Forestry Sciences, Doctor Honoris Causa of Oradea University, Romania

11.30 – 12.00: **DR. NURBEK KHAMRAEV:** ACCLIMATIZATION OF HUNGARIAN RICE VARIETIES IN THE KHOREZM CLIMATE CONDITION AND THEIR BIOMETRICAL PARAMETERS
Senior Scientist at the Khorezm Mamun Academy, Academy of Sciences of the Republic of Uzbekistan

12.05 – 12.15: Group photo of the participants

12.15 – 14.00 Lunch

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Oral presentations

Moderator: Dr. Norbert Túri, PhD. (MATE)

- 14.00 – 14.15: BALÁZS KAJÁRI, NORBERT TÚRI, JÁNOS KÖRÖSPARTI, CSABA BOZÁN, BOUDEWIJN VAN LEEUWEN: Inland excess water monitoring with segmentation, supervised classification and machine learning on Sentinel-2 images
- 14.15 – 14.30: BIANCA-DENISA CHEREJI, FLORENTINA-DANIELA MUNTEANU: Sheep wool waste – an innovative solution for retaining heavy metals from contaminated waters
- 14.30 – 14.45: BOGLÁRKA BOZÓKI, GERGŐ PÉTER KOVÁCS, MÁRTA BIRKÁS, ZOLTÁN KENDE, CSABA GYURICZA: Effects of tillage management practices on water availability in soybean (*Glycine max L.*)
- 14.45 – 15.00: COSMINA-SIMONA TOADER, IOAN BRAD, ANDREA ANA FEHER, COSMIN SALASAN, ELENA CLAUDIA SÎRBULESCU, JAKUB SKORUPA: Romanian aquaculture in terms of businesses performance
- 15.00 – 15.15: CSABA BOZÁN, JÁNOS KÖRÖSPARTI, NORBERT TÚRI, BALÁZS KAJÁRI, LÁSZLÓ PÁSZTOR: High-resolution excess water hazard and risk mapping of agricultural areas
- 15.15 – 15.30: RAUL PASCALAU: The importance of translation and impact of CAT tools in water irrigation systems
- 15.30 – 15.45: Coffee break**
- 15.45 – 16.00: KÁROLY BODNÁR, GÁBOR BODNÁR: Treatment of the air in animal housing buildings in order to protect the environment
- 16.00 – 16.15: MIHÁLY JANCSÓ, ÁRPÁD SZÉKELY, TÍMEA SZALÓKI, CSABA LANTOS, JÁNOS PAUK: Drought tolerance of doubled haploid rice lines under aerobic conditions in Hungary
- 16.15 – 16.30: NOÉMI JÚLIA VALKOVSZKI, TÍMEA SZALÓKI, ÁRPÁD SZÉKELY, ÁGNES KUN, ILDIKÓ KOLOZSVÁRI, MIHÁLY JANCSÓ: Recent results on using agricultural effluent for irrigating herbs and spices at the MATE ÖVKI Lysimeter Station
- 16.30 – 16.45: NIGORA TOHIROVA, TOKHIR ERGASHEV, ANDREA FEHER: The attitude of the Republic of Uzbekistan to climate change and measures taken to ensure climate resilience
- 16.45 – 17.00: EMMY GOH LING LING, MIHÁLY JANCSÓ, NORBERT TÚRI: Effect of combined fertilizer and rice husk biochar on rice yield, nitrogen content, grain quality, and water productivity under aerobic rice cultivation in Hungary
- 17.00 – 17.15: PRIYA SHARMA, MÓNIKA VARGA AND GERGŐ GYALOG: Assessment and mapping of cultural and habitat maintenance ecosystem services offered by fishpond landscapes
- 17.14 – 17.30: TÍMEA SZALÓKI, ÁRPÁD SZÉKELY, ÁKOS TAMAWA, MIHÁLY JANCSÓ: Effect of irrigation methods on arsenic accumulation in different organs of rice

Closing of the conference

18.30- Dinner

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Posters section (e-posters are presented on-line and on site in the breaks)

- ANDREA FEHER, IOAN BRAD, COSMINA-SIMONA TOADER, CIPRIAN IOAN RUJESCU, MIROSLAV RAICOV, ADRIAN BANES: Romania's perspectives on the transition to the circular economy in the European context
- ANKA ROXANA PASCARIU, GORDAN MARIUS, DRAGOȘ CHENDE, IOSIM IASMINA, TABITA ADAMOV, TIBERIU IANCU: Communication applications in agriculture based on artificial intelligence
- BEATRIX BAKTI, ZSOLT KESERŰ, MIHÁLY JANCSÓ, ILDIKÓ KOLOZSVÁRI, BARBARA SIMON, MIHÁLY ZALAI, CSABA GYURICZA, ÁGNES KUN: Examination of the yield of energy trees in an experiment that was irrigated with recycled water and mulched in an agroforestry system
- BOGLÁRKA BOZÓKI GERGŐ PÉTER KOVÁCS CSABA GYURICZA: Conservation tillage in soybean (*Glycine max L.*) as a fundamental strategy towards circular economy in agriculture
- CAMELIA MĂNESCU, RAMONA CIOLAC, TABITA ADAMOV, NICOLETA MATEOC-SÎRB, MARIUS IONUȚ GORDAN: Socio-economic analysis of the Densus commune, Hunedoara county
- CSENGE NAGY-MEZEI, ANIKÓ BEZSENYI, IMRE GYARMATI, LEVENTE KARDOS: The removability of active pharmaceutical ingredients from wastewater with traditional wastewater treatment technology
- ILIE (AXINIA) MARIA-SIMONA, DRAGOMIR CARLO MARIUS, RABA DIANA NICOLETA: Functional and technological properties of ancient wheat species
- IOAN BRAD AND IOANA MIHAELA BALAN: Analysis of the dynamic trends in staple crop yields: a comparative study of Romania and Hungary
- KOLOZSVÁRI ILDIKÓ, KUN ÁGNES, BÍRÓNÉ ONCSIK MÁRIA, VALKOVSZKI NOÉMI JÚLIA, JANCSÓ MIHÁLY, BOZÁN CSABA, GYURICZA CSABA: Phenological and physiological impacts of irrigating Sudan Grass with intensive fish farm effluent water
- ȘMULEAC ADRIAN, ȘMULEAC I. LAURA, MAN TEODOR, IMBREA FLORIN, HERBEI MIHAI, PAȘCALĂU RAUL: Processing airline pictures from UAV using GCP, cloud processing of point (point cloud) and orthomosaic applied in water management
- ZOLTÁN FUTÓ: The effect of water deficit and amino acid treatments on the development of tomato
- RAMONA CIOLAC, COSMIN ALIN POPESCU, TIBERIU IANCU, SORIN STANCIU, GABRIELA POPESCU, ELENA PEȚ, TABITA ADAMOV, DIANA RABA, DIANA MARIN: Agritourism activity-an important tool for sustaining the development of Romanian village
- TABITA ADAMOV, TIBERIU IANCU, GABRIELA POPESCU, ELENA PEȚ, RAMONA CIOLAC, CAMELIA MĂNESCU, DRAGOȘ CHENDE, MARIUS GORDAN: How AI can be the solution to agricultural problems
- UBULEK BURGANOVA, ANGURA LOUIS, JÁNOS TAMÁS, ATILA NAGY, ANDRÁS NIKL, ZSOLT ZOLTÁN FEHÉR: Google Earth Engine Based machine learning approaches for robust crop identification and water balance estimation in Eastern Hungary
- YOHANNES GEBREGZIABHIR, ZOLTAN VEKERDY AND FLORENT DEMELEZI: Assessment of crop water stress by using Remote sensing

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21st June 2024. Friday

9.00 – Visit to the Arboretum of Szarvas (optional)

We reserve the right to change the program.

CONTACT:

Website of the conference with more details is available: iscw.hu

For any additional information please feel free to contact: info@iscw.hu