



The Third Announcement
(ESSS 2024)

The 14th International Conference of ESSS in collaboration with Soil and Water Dept., Faculty of Agriculture, Al-Azhar University, Cairo

Sustainable Management of Soil and Water Uses under Climate Change: Reality and Prospects

1-2 October 2024, Cairo, Egypt

Under the Umbrella of:

The International Union of Soil Sciences (IUSS)

Organized by

Egyptian Soil Science Society (ESSS) in collaboration with Soil and Water Dept., Faculty of Agriculture, Al-Azhar University, Cairo

Conference Avenue:

Soil and Water Dept., Faculty of Agriculture, Al-Azhar University, Cairo, Egypt

Under Auspices of
Prof. Dr. Ahmed M. Al-Tayeb
The Grand Imam of Al-Azhar

Honorary President of the Conference
Prof. Dr. Salama G. Dawoud
President of Al-Azhar University

Vice President of Honor of the Conference
Prof. Dr. Mahmoud Siddiq
Vice President of the University for Postgraduate Studies and Research

Conference Chairman

Prof. Dr. Gamal Abd Rabbo Al-Sayed
Faculty of Agric. Dean, Al-Azhar Univ.

Prof. Dr. M. Essam El-Din Shawky
Faculty of Agric. Cairo Univ., President of ESSS

Conference Coordinators

Prof. Dr. Magdy Shahin Hussein
Faculty of Agric. Cairo, Al-Azhar Univ.

Prof. Dr. Said Mohamed Shaaban
National Research Centre

Chairman of the Scientific Committee

Prof. Dr. Mohamed A. Hammad
Faculty of Agric. Cairo, Al-Azhar Univ.

Prof. Dr. Hassan R. El-Ramady
Faculty of Agric. Kafrelsheikh University

Chairman of the Organizing Committee

Prof. Dr. Ali Mohammed Mashhour
Faculty of Agric. Cairo, Al-Azhar Univ.

Prof. Dr. Tolba Saleh Abdel-Al
Faculty of Agric. Fayoum University

Conference Secretariat

Prof. Dr. Hassan Hamza Abbas
Faculty of Agric. Benha University

Prof. Dr. Emad Said Abdel Hady
Head of Soil and Water Dept., Faculty of Agric. Cairo, Al-Azhar Univ.

Contacts and registration:

For registration, please visit the following link and complete the application form:

<https://forms.gle/i5hWCG6pnCtD6exo9>

All abstracts should be sent to:

E-mail: ejssci@gmail.com

What's App.: 0036202979482

Deadline for the conference:

- Abstracts deadline: **31.08. 2024.**
- The manuscripts should be written in Win XP-Microsoft word 2003 in A4 size with Arial font and the max. words for the abstract should range from **250 to 400 words**

Conference fee and payment possibility:

Category	Fees
For foreigners or non-Egyptian (Non-participant with abstract)	150 USD
For foreigners or non-Egyptian (participant with abstract)	250 USD
For foreigners or non-Egyptian students (online-participant)	200 USD
The online participant for foreigners or non-Egyptian	200 USD
Non-members of Egyptian soil science society (without abstract)	800 LE
Non-members of Egyptian soil science society (with abstract)	1000 LE
Members of Egyptian soil science society (without abstract)	600 LE
Members of Egyptian soil science society (with abstract)	800 LE

Attending of Egyptian Students is **FREE** but the needing for a certificate requires **100 LE**

Publication of articles by EJSS (**IF= 1.5**) are subjected to the rules of EJSS and need publishing fees

Conference fee does NOT include the accommodation cost!!

(1)- Electronic payment on the account of the Egyptian Society for soil sciences at the Cairo Bank Giza Branch as follows:

The bank account no. is **600-501-0000-483** Cairo Bank (BANQUE DU CAIRE), Giza Branch
SWIFT (BIC) code: **BCAIEGXXXX**, **IBAN:** Not available

(2)- Payment in cash to **Prof. Tolba Saleh, Prof. Said Shaaban, and Prof. Ahmed Khalil Amer.**

Objectives of the conference:

Conference will focus on soil and water resources development: its challenges and different strategies or solutions under global climate change.

Topics of the Conference:

1. Modern technologies and soil science:

- 1.1 Applications of nanotechnology in soil sciences
- 1.2 Applications of remote sensing and geographic information systems
- 1.3 Applications of artificial intelligence
- 1.4 Smart agriculture applications

2. Environment and soil sciences:

- 2.1 Biofuels and other renewable energy options
- 2.2 Carbon sequestration and carbon footprint
- 2.3 Soil pollution strategies and remediation approaches
- 2.4 Land uses and capability

3. Global climate change and global soil crisis

- 3.1 Impacts of climate changes on soil and water resources
- 3.2 Effects of climate change on various ecosystems
- 3.3 Adaptation and mitigation strategies to climate changes

4. Conservation, and preservation of soil and water resources

- 4.1 Irrigation and agricultural drainage maintenance
- 4.2 Low water quality management
- 4.3 Soil conservation approaches
- 4.4 Soil, water and plants nexus under stresses
- 4.5 Desertification, water, food and soil security

5. Agricultural soil systems

- 5.1 Soilless farming systems and hydroponics
- 5.2 Low-cost and sustainable agricultural systems
- 5.3 Farming systems

6. Sustainable management under global changes

- 6.1 Sustainable management of soil and water resources
- 6.2 Sustainable management of crops under stress conditions
- 6.3 Economics of soil and water resources

Keynote speakers

No.	Title of presentation	Speaker and affiliation
1	Smart Agriculture for Soil and Water Conservation	Prof. Edoardo A. C. Costantini President of IUSS
2	Restoring Organic Matter Content for Managing Soil Health in Africa	Prof. Rattan Lal Past President of IUSS
3	Water Resources and Food Security under Changing Climate: The Challenges and Possible Solutions	Prof. Ragab Ragab Ex-Chairman of the British National Committee on Irrigation and Drainage, ICID-UK
4	Nano-Bioengineering for Soil Rhizospheric System and Plant Growth	Prof. Vishnu D Rajput Academy of Biology and Biotechnology, Southern Federal Uni., Rostov-on-Don, Russia

5	Harnessing the beneficial roles of natural biostimulants for enhancing plant abiotic stress tolerance	Prof. Dr. Mirza Hasanuzzaman Agronomy Dept., Faculty of Agriculture Sher-e-Bangla Agricultural University (SAU), Sher-e-Bangla Nagar, Dhaka-1207, Bangladesh
6	Soils, Climate, and Ancient Civilizations	Prof. Eric C. Brevik Southern Illinois University, USA
7	Decades of Innovation in Nanotechnology in Agroecosystem	Prof. József Prokisch Debrecen Uni., Hungary
8	Unlocking the Power of Soil for Sustainable Water Conservation and Circular Bioeconomy	Prof. Martin A. Anikwe Enugu State University, Nigeria
9	Rhizospheric engineering: A key way to improve plant growth and restore soil health	Dr Sudhir K Upadhyay VBS Purvanchal University Jaunpur- UP, India
10	Bio-Priming Mediated Plant Nutrition Under Changing Climate	Prof. Amitava Rakshit Soil Science and Agricultural Chemistry Dept., Institute of Agricultural Science, Banaras Hindu University, UP-221005, India
11	Advanced Soil and Nutrient Nano-Management under Salinity Stress	Dr Abhishek Singh Applied Biology and Ecology Lab, Research Institute of Biology, Yerevan State University, Armenia
12	New age nutrient carriers for sustaining soil fertility and plant nutrition under climate change"	Dr Gobinath Rajendran Soil Science, ICAR-Indian Institute of Rice Research, Rajendranagar, Hyderabad, INDIA
13	Innovative Solutions for Agricultural Sustainability under Abiotic Stress	Prof. Dr Karen Ghazaryan Dean Faculty of Biology, Yerevan State University, Armenia
14	Strategy of land reclamation for facing the Global Changes: A focus on the projects in Egypt	Prof. Abdel Aziz Sheta Faculty of Agriculture, Ain Shams University
15	Enhancing Soil Resilience: Roadmap for Sustainability in a Changing Climate	Prof. Reda Ragab Shaheen Faculty of Agriculture, Cairo University
16	Opportunities for investing human capital under climate change for developing land and water resources in agricultural development projects	Prof. Mohamed Helmy Nawar Faculty of Agriculture, Cairo University
17	Current status of the Egypt's Biodiversity and Action Plan	Prof. Moustafa Fouda National Focal Point of Convention on Biological Diversity (CBD), Ministry of Environment, Egypt
18	Digital Agriculture in Egypt: Innovations and Technologies Reshaping the Agricultural Sector	Prof. Moustafa Mohamed Hassan General Organization for Export and Import Control, Ministry of Investment, Egypt
19	Strategy for the conversion of flood irrigation to drip irrigation in Egypt: hopes and challenges	Prof. Atef Nassar Advisor to the Egyptian Minister of Water Resources and Irrigation, Water Management Research Institute, Egypt
20	Biodiversity, climate change, and food security	Prof. Abdelfattah Badr

		Professor of Genetics and Plant Biodiversity, Faculty of Science, Helwan University, Cairo, Egypt
21	The future of water resources in Egypt and the current challenges	Prof. Abbas Sharaky Natural Resources Dept., Faculty of High African Studies, Cairo University
22	Unconventional sources of irrigation water and their role in agricultural development under Egyptian conditions	Prof. Magdy Shahin Hussein Soil and Water Dept., Faculty of Agriculture, Al- Azhar University, Cairo
23	Innovative Approaches for Biofertilizers and reclaiming Soil Salinity by means of biological systems and Nanobiotechnology	Prof. Mohamed Fathy Salem Bio Pyramids Biotech