



Food and Agriculture  
Organization of the  
United Nations



8 November 2022

## **Open International Forum-Webinar on environmental regulation of the quality of phosphate fertilizers**

**"Cadmium rationing in phosphorus fertilizers to solve global challenges of food systems and environmental safety of the XXI century"**

**On November 8, 2022 from 13:00 p.m. to 16:00 p.m. CET** (15:00 p.m. to 18:00 p.m. Moscow time) on the grounds of the Russian Timiryazev State Agrarian University, an international forum will be held in the format of an open webinar (in English and Russian), organized jointly with the Diplomatic Academy of the Ministry of Foreign Affairs of the Russian Federation and PhosAgro with the participation of leading Russian and foreign experts from the Global Soil Partnership (GSP), the UN Food Systems Coordination Center, the FAO Liaison Office with the Russian Federation, the Eurasian Soil Partnership, basic universities and specialized research institutions.

In a live dialogue mode, there will be a discussion on the priority tasks and accumulated experience in environmental rationing and agroecological assessment of cadmium content in phosphorus fertilizers, food and soil to solve global challenges of food and environmental security of the XXI century.

The leading experts will present their vision and discuss agroecologically sound regulation of cadmium content in mineral fertilizers, taking into account:

- background cadmium content in arable soils and regional typological features of the soil absorbing complex;
- agroecological features of cadmium accumulation in plant products obtained on soils of different texture and level of agrogenic degradation;
- potential mobility of the cadmium coming with fertilizers in the global climate change conditions, its regional characteristics and different soil cover patterns;
- recommended doses of phosphorus fertilizers for the main agricultural crops with increasing differentiation in the intensity levels of applied agricultural technologies;

- need for a systematic solution to the tasks of minimizing the environmental and economic risks of crop production and livestock breeding to address the global challenges of food systems and environmental security of the XXI century.

A wide range of representatives of different levels of executive and legislative authorities interested in the development of environmentally safe and sustainably profitable agricultural production in Russia and in the world, Russian and foreign experts and young scientists, innovation-oriented businessmen, students, and teachers from different countries are invited to participate in the webinar.

# AGENDA OF THE EVENT

13:00 – 13:30 CET (15:00 – 15:30 Moscow Time)

## Opening, endorsement of the agenda.

**Moderator:** Prof., Academician Vladimir Trukhachev, Rector of Russian Timiryazev State Agrarian University.

- Mr. Alexander Sharabaiko, Deputy CEO of PhosAgro.
- Mr. Oleg Kobiakov, Director, FAO Liaison Office with the Russian Federation.
- Mr. Ronald Vargas, GSP Secretary.
- Prof. Alexander Yakovenko, Rector of Diplomatic Academy.
- Dr. Stefanos Fotiou, Director of the Office of Sustainable Development Goals, Head of the UN Food Systems Coordination Hub.

*Video “Cadmium exposure and human health – SCAHT on the importance to limit Cd in phosphate fertilizers”*

13:30 – 14:30 CET (15:20 – 16:30 Moscow Time)

## Session 1: *The international Code of Conduct for use of fertilizers contaminated with Cadmium.*

**Moderator:** Prof. Alexander Yakovenko, Rector of the Diplomatic Academy.

**Item 1-1:** *The international Code of Conduct for the sustainable use and management of fertilizers.*

Mr. Oleg Kobiakov, Director, FAO Liaison Office with the Russian Federation.

**Item 1-2:** *Cadmium pollution in agricultural soil: from source prevention to sustainable remediation.*

Dr. Deyi Hou, Vice Chair of the UN-FAO International Network of Soil Pollution (INSOP).

**Item 1-3:** *Cadmium regulation in phosphate fertilizers: reasons, experience and prospects.*

Prof. Vladimir Romanenkov, Head of Agrochemistry and Plant Biochemistry Department, Moscow Lomonosov State University.

## *Summary of the Session*

*Video “Kevin Nolan – The importance of soil”*

14:30 – 15:40 CET (16:30 – 17:40 Moscow Time)

## Session 2: *Heavy Metals environmental impact assessment and best available agrotechnologies*

**Moderator:** Prof., Academician Vladimir Trukhachev, Rector of the Russian Timiryazev State Agrarian University.

**Item 2-1:** *Climate Change and Agricultural Systems: target demands and potential advantages for Italy and Russia in XXI century.*

Prof. Riccardo Valentini, CMCC and Russian Timiryazev State Agrarian University.

**Item 2-2:** *The UN Food Systems Coordination Hub support to food systems transformation.*

Dr. Stefanos Fotiou, Director of the Office of Sustainable Development Goals, Head of the UN Food Systems Coordination Hub.

**Item 2-3:** *INFA's role in fertilizer quality assessment and harmonization of measurements.*

Dr. Vinisa Saynes Santillan, International Network on Fertilizer Analysis (INFA).

**Item 2-4:** *Current status of phosphorus fertilizer application in Sub-Saharan Africa: case studies in Eastern and Southern Africa.*

Dr. Simon Angomber, Associated Dean of Agriculture and Fisheries Science, University of Namibia.

Prof. Rhoda Birech, Professor in Agrochemistry of Agriculture and Fisheries Science, University of Namibia.

**Item 2-5:** *Heavy Metals impacts on soil health and ecosystem services: current trends and evaluation systems for agrotechnologies in future.*

Prof. Ivan Vasenev, Head of Ecology Department, Russian Timiryazev State Agrarian University, President of International Network of Black Soils (GSP)

**Summary of the Session**

15:40 – 16:00 CEST (17:40 – 18:00 Moscow Time)

**Session 3: General Discussion and Closing remarks.**

**Moderator:** Prof. Alexander Yakovenko, Rector of the Diplomatic Academy.

- Dr. Stefanos Fotiou, Director of the Office of Sustainable Development Goals, Head of the UN Food Systems Coordination Hub.
- Mr. Oleg Kobiakov, Director, FAO Liaison Office with the Russian Federation.
- Prof., Academician Vladimir Trukhachev, Rector of the Russian Timiryazev State Agrarian University.