



Oleksandr Solarov

Nationality: Ukrainian **Date of birth:** 16/02/1989 **Place of birth:** Sumy, Ukraine

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ABOUT ME

Dean of the Faculty of Civil Engineering and Transport.

Candidate of Technical Sciences, Associate Professor of the Department of Transport Technologies.

Expert of the National Academy of Sciences of Ukraine in specialties 208 Agricultural Engineering, 275 Transport Technologies (by type).

WORK EXPERIENCE

Associate Professor of the Department of Transport Technologies, Dean of the Faculty of Construction and Transport

Sumy National Agrarian University [2023 – Current]

City: Sumy | Country: Ukraine

Teaching the subjects "Information technologies and navigation systems for transport and warehouse management", "Use of equipment in the agricultural sector", "Modeling of transport processes and assessment of the quality of work performed on transport", "Communications in the international environment".

Chairman of the Council of Young Scientists at the Sumy Regional State Administration.

[2023 – Current]

City: Sumy | Country: Ukraine

Assistant Professor, Senior Lecturer, Associate Professor, Deputy Dean of the Faculty of Engineering and Technology

Sumy National Agrarian University [2015 – 2023]

City: Sumy | Country: Ukraine

Regional sales representative

«AGROSIS» [2013 – 2014]

City: Sumy | Country: Ukraine

Spare parts sales manager

LLC "Sumy-Avto" [2012]

City: Sumy | Country: Ukraine

Spare parts sales manager

LLC "Agrosoyuz-Sumy" [2012]

City: Sumy | Country: Ukraine

EDUCATION AND TRAINING

Master's Degree in Agricultural Mechanization

Sumy National Agrarian University [2006 – 2012]

City: Sumy | Country: Ukraine

Postgraduate studies in the specialty of machines and means of mechanization of agricultural production

Sumy National Agrarian University [2012 – 2015]

City: Sumy | Country: Ukraine

Ph. D. Candidate of Sciences in Agricultural Mechanization Machinery and Equipment

Topic: "Substantiation of the soil compaction process by MTA wheeled engines."

Master's Degree in Transport Technologies

State Biotechnological University [2020 – 2021]

City: Kharkiv | Country: Ukraine

Internship «Grant agreement for Erasmus+ staff mobility for training between PROGRAMME and PARTNER COUNTRIES»

Weihenstephan-Triesdorf University of Applied Sciences (HSWT) [11/2016]

Country: Germany

Internship

LLC "SUMSKA AUTOTRANSSPORTNE PIDPRIYEMSTVO 15954" [15/03/2021 – 15/04/2021]

Internship «German Academic Exchange Service (DAAD)»

Weihenstephan-Triesdorf University of Applied Sciences (HSWT) [08/11/2021 – 12/11/2021]

Country: Germany

Internship

University of Applied Sciences in Nysa [05/2024]

Country: Poland

LANGUAGE SKILLS

Mother tongue(s): Ukrainian

Other language(s):

English

LISTENING B2 READING B2 WRITING B2

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

PROJECTS

[2017]

"Development of energy-saving technologies to ensure the operational properties of the working surfaces of parts" №47448.

[2018]

"Study of soil moisture dynamics under grain crops during the harvest period in order to determine the optimal operating conditions for agricultural machinery" №31-5-2.

[2017 – 2019]

"Mechanical and technological justification for reducing the harmful impact of running systems of energy vehicles on the soil"(0117U002556).

[06/2021 – 06/2026]

Development of methods for improving transport systems and transportation technologies in the agro-industrial complex(0121U111512).

HONOURS AND AWARDS

[2017] SNAU Rector's Award

"Person of the Year - 2017"

[2020] Honors

"The best scientific and pedagogical worker of SNAU"

[2020] Certificate of Honor

Heads of Sumy Regional State Administration

2020-2022

Scholarship holder of the Cabinet of Ministers of Ukraine

[2023] Winner of the regional competition of scientific projects for young scientists

"Science for the security and sustainable development of Sumy region"

2024 and 2025

Laureate of the Prize of the Verkhovna Rada of Ukraine for Young Scientists

PUBLICATIONS

Golub, G., Grabar, I., Derevyanko, D., Holubenko A., Medvedskyi, O., Chuba, V., Solarov, O., Bilko, T., Pavlenko, M., & Saienko, A. (2021). Determining the thermal mode of bio-based raw materials composting process in a rotary-type chamber . Eastern-European Journal of Enterprise Technologies, 2(8 (110), 41–52.

Oleksandrenko V., Kurskoi V., Davydenko G., Solarov O. (2020). Determination of soil humidity dynamics under grain wheat crops, 2020 Scientific Horizons 93(8):189-194/DOI: 10.33249/2663-2144-2020-93-8-189-194.

Stechyshyn, M.S., Skyba, M.E., Stechyshyna, N.M., Solariov O.O., et al. Physicochemical Properties of Carbonitrided KhVG Steel. Mater Sci 56, 837–842 (2021). <https://doi.org/10.1007/s11003-021-00502-9> .

Golub, G., Chuba, V., Yarosh, Y., Tsyvenkova, N., Solarov O..Experimental studies of the interaction of tractor drive wheels with the soil in the plowed field, 2021 INMATEH Agricultural Engineering 65 / No. 3 / 2021: 430-440/ <https://doi.org/10.356.33/inmateh-65-45>.

Sobko, M., Butenko, Y., Davydenko, G., Solarov, O., Pylypenko, V., Makarova, V. ... Poriadynskyi, V. (2023). Ecological and Economic Study of Wheat Winter Varieties by Different Geographical Origin. Ecological Engineering & Environmental Technology, 24(1), 12-21

Kalnahuz, A., Melnyk, V., Solarov, O., Sirenko, Y., Chyrva, A. (2023). A Curvilinear Blades Profile of Accelerating Devices. In: Ivanov, V., Pavlenko, I., Liaposhchenko, O., Machado, J., Edl, M. (eds) Advances in Design, Simulation and Manufacturing VI. DSMIE 2023. Lecture Notes in Mechanical Engineering. Springer, Cham.

Solarov, O., Dovzhyk, M., Kalnahus, O., Rudenko, V., Tatsenko, O., Roubík, H. (2023): Stress Distribution and Soil Compaction Changes under the Agricultural Tyres. *Scientia Agriculturae Bohemica*, 54, 30-39. DOI: 10.7160/sab.2023.540104 .

Oleksandrenko V.P., Kurskoy V.S., Solarev O.O., Tatsenko O.V.. Theoretical approaches to the study of soil compaction / V.P. Oleksandrenko, V.S. Kurskoy, O.O. Solarev, O.V. Tatsenko // *Bulletin of Sumy National University "Mechanization and Automation of Production Processes"* ISSUE 1 (39), 2020. pp. 43-50.

Melnyk, V., Dovzhyk, M., Tatyanchenko, B., Solaryov, O. and Kalnaguz, O. (2020) "Uniformity of seeding and intensity of soil coverage by centrifugal sprayers of fertilizer spreaders", *Scientific Journal "Environmental Engineering"*, (3(13), pp. 51-55. doi: 10.37700/enm.2019.3(13).51-55.

Solarov O.O., Mikulina M.O., Tatsenko O.V. (2021) Main factors influencing the construction of transport interchanges, *Bulletin of Vinnytsia Polytechnic Institute*. 2021. No. 1. pp. 102-107. doi.org/10.31649/1997-9266-2021-154-1-102-107.

Mikulina M. O. The role of warehouse infrastructure in transport technologies for agricultural production [Electronic resource] / M. O. Mikulina, O. O. Solarev, O. V. Tatsenko // *Environmental Engineering*. – 2020. – No. 4 (18). – P. 29-34.

Mikulina, M. O., Solarov, O. O. i Tatsenko, O. V. (2021) «The analysis and forecasting of passenger traffic on road transport», *Engineering of nature management*, (1(19), pp. 21 - 26.

Shramenko N. Analysis of the freight transportation market in Ukraine / N. Shramenko, V. Shramenko, O. Solariev // *Modern technologies in mechanical engineering and transport* Volume 1 No. 16 (2021). – P. 30-35.

Solarev O.O. Calculation of the capacity of the automobile flow at the traffic interchange. / O.O. Solarev, M.O. Mikulina, O.V. Tatsenko // *Bulletin of the National Technical University "KhPI". Series: New solutions in modern technology: collection of scientific works / National Technical University "Kharkiv. Polytechnic Institute"*. — Kharkiv: NTU "KhPI", 2021. — No. 1(7). - P. 54-58.

Starikov A. I., Solarev O. A., Mikulina M. O., Using different approaches to solving logistics problems [Electronic resource] / A. I. Starikov, O. A. Solarev, M. O. Mikulina [and others] // *Bulletin of the Vinnytsia Polytechnic Institute*. – Vinnytsia, 2021. – No. 4. – P. 56-62.

Mikulina M. O. Analysis and forecasting of passenger transportation indicators in road transport [Electronic resource] / M. O. Mikulina, O. A. Solarev, O. V. Tatsenko // *Kharkiv National Technical University of Agriculture named after Petro Vasylenko*. – Kharkiv, 2021. – P. 21-36.

Tarelnyk, V., Solaryov, O., Tarelnyk, N. and Voloshko, T. (2021) "Reducing the intensity of road transportation in the system of technical maintenance and repair of agricultural machinery", *Scientific Journal "Environmental Engineering"*, (3(21), pp. 21-31. doi: 10.37700/enm.2021.3(21).21-31.

Voloshko T.P., Tatsenko O.V., Solarov O.O. (2022) "INCREASING THE EFFICIENCY OF THE USE OF VEHICLES FOR AGRICULTURAL PRODUCTION", *Scientific Journal "Environmental Engineering"*, 2(24), doi: 10.37700/enm.2022.2(24).

Solarov, O., Tatsenko, O., & Voloshko, T. (2022). CRITERIA FOR SELECTING VEHICLES FOR CARGO TRANSPORTATION. *Municipal Utilities*, 6(173), 189–194.

O. O. Solarev, V. O. Gerasimenko, and O. V. Tatsenko, "METHOD FOR LOAD DISTRIBUTION ON THE AXLES OF A CARGO VEHICLE", *Bulletin of the Ukrainian Institute of Industrial Engineering*, vol. 6, pp. 65–68, Dec. 2022.

Moroz, M. M., Shramenko, N. Yu., Moroz, O. V., & Solarov, O. O. (2023). TRANSPORT AND FORWARDING SERVICES IN TRANSPORTATION OF URBAN SMALL-BATTERY CARGO. Bulletin of the Sumy National Agrarian University. Series: Mechanization and Automation of Production Processes, (3 (49), 45-50.

Solarov, O. O., & Sarzhanov, O. A. (2023). FEATURES OF ORGANIZATION OF ROAD TRAFFIC AT CITY INTERSECTIONS. Bulletin of Sumy National Agrarian University. Series: Mechanization and Automation of Production Processes, (3 (49), 75-81.

Serdyuk, V., Rudenko, V., Solarev, O., Sarzhanov, O., & Sayenko, A. (2023). ENERGY CONSERVATION DURING GRAIN CRUSHING. Scientific Bulletin of the Tavria State Agrotechnological University, 13(2).

Rudenko, V. P., and O. O. Solarov. "QUALITY MANAGEMENT OF AGRICULTURAL ENTERPRISES BASED ON INTERNATIONAL APPROACHES." Bulletin of Sumy National Agrarian University. The series: Mechanization and Automation of Production Processes 2 (52) (2023): 59-64.